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United States
Department of
Agriculture

Forest Service

Tongass
National
Forest

R10-MB-239e

August 1993



North Revilla Final Environmental Impact Statement

Ketchikan Pulp Company
Long-Term Timber Sale Contract

Volume III: Appendix K, Pt. 1



Appendix K

Unit and Road Cards - Part 1

Summary of Mitigation Measures:

- Fish & Wildlife Timing
- Watershed Mitigation
- Estimate of Areas Requiring Full Bench or Full Bench and End-Haul Road Construction

Coordination with Fish and Wildlife Resources

The following tables display mitigation measures for fish and wildlife considerations in the units listed. These measures include:

Fish - Instreams operations are generally allowed in streams containing pink and chum salmon from June 1 to August 7; from June 15 to September 1 for coho salmon; and from July 18 through August 7 for steelhead trout.

Bald eagle - No blasting within a half mile of eagle nests from February 28 to September 1 if the nest is active, or from February 28 to June 1 if the nest is unoccupied.

Trumpeter swan - No harvest or road construction activities within one-half mile of important feeding and resting areas between November 1 and April 1.

Table K-1
Summary of Units Having Mitigation for Fish and Wildlife

Unit	Fish Timing	Eagle Timing	Swan Timing	Snag Patches
3005			X	
3006			X	
3008	X			
3010			X	
3011	X			
3012	X		X	
3016	X		X	
3019	X			
3021				X
3024	X			
3025	X			
3026	X			
3031	X			
3033	X			
3035	X			
3037			X	X
3038	X			
5010		X		
5011	X			
5014	X			
5015	X	X		
5019		X		
5020		X		
5022	X			
5028	X	X		
5029	X			
5030		X		
5031		X		
5032		X		
5034		X		
5044	X			
5045		X		

continued

Appendix K

Summary of Units Having Mitigation for Fish and Wildlife - Continued

Unit	Fish Timing	Eagle Timing	Swan Timing	Snag Patches
5046	X			
5048		X		
5049		X		
5053		X		
5054		X		
5055	X	X		
5056	X			
5057		X		
5513		X		
5517		X		
5518	X	X		
6001	X	X		
6002		X		
6004		X		
6005		X		
6006	X	X		
6008	X	X		X
6009		X		
6011				X
6012	X			
6021		X		
6022		X		
6023		X		
6024	X			X
6025	X	X		
6026		X		
6027	X	X		
6028	X	X		
6029		X		
6032	X	X		
6033		X		
6034	X			
6035		X		
6036	X	X		
6037		X		
6038		X		
6039		X		
6040	X			
6042		X		
6043	X			
6049				X
6052		X		
6055		X		
7000		X		
7002		X		
7003		X		
7004				X
7006		X		
7009				X
7011	X			

continued

Summary of Units Having Mitigation for Fish and Wildlife - Continued

Unit	Fish Timing	Eagle Timing	Swan Timing	Snag Patches
7012	X	X		
7013		X		
7014	X	X		
7037	X			
7038				X
7042		X		
7045		X		
7046		X		
7047		X		
7053		X		
7054		X		
7076	X			
7077	X	X		
7078		X		
7079		X		
7080		X		
7083		X		
7084		X		
7086				X
7099	X	X		
8001			X	
8003		X		X
8009		X	X	X
8010		X		X
8011	X		X	
8012	X			
8017	X			
8018	X			
8022	X			X
8028		X		
8030	X	X		
8031	X			
8040		X		
8041	X	X		X
8044		X		
8045		X		
8047		X		
8048		X		
8049		X		
8050		X		
8053		X		
8054		X		
8056		X		
8063		X		
8064		X		
8067		X		
8068		X		
8069	X			
8070	X		X	
8071			X	

continued

Appendix K

Summary of Units Having Mitigation for Fish and Wildlife - Continued

Unit	Fish Timing	Eagle Timing	Swan Timing	Snag Patches
8073	X			
8078	X	X		
8080		X		
8083		X		
8084		X		
8091		X		
8108		X		
8117		X		
8119		X		
9000			X	
9001		X		
9002	X	X		
9003		X		
9005		X		
9007	X			
9008	X	X	X	
9017	X			
9018	X			
9021	X			
9041			X	
9042	X			
9047		X	X	
9048		X	X	
9049	X			
9050		X		
9053	X		X	
9055	X			
9056			X	
9068		X		
9069	X			
9075	X	X		
9082				X
9091				X
9092		X		
9094	X			
9103			X	

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TABLE K-2

MITIGATION MEASURES
WATERSHED

Timber Management Requiring
Mitigation Measures
Areas Requiring Full or Partial Suspension
(Soil and Water Conservation Practice)

Harvest Unit Number	Areas of Harvest on MMI=3 Soils (P 13.5) Acres	Areas Requiring Partial or Full Suspension (P 13.9) Acres	Areas of Wetlands (P 13.15) Acres	Areas of McGilvery Soils (P 13.19) Acres	Alternatives Included In
2001	33	47	9	34	2,5
2002	27	26	0	26	2
2003	0	40	0	0	2,5
2004	0	20	8	12	2
2005	34	41	7	34	2
2006	46	48	49	0	2,5
2007	4	4	4	0	2
2008*	23	29	29	0	5
2009	71	91	81	10	5
2010	22	21	29	0	5
2011	20	38	19	20	5
2012	7	20	6	7	5
2013	6	12	0	6	5
3001	3	20	9	11	2,4
3002	26	27	26	0	2,4
3003	9	106	20	97	2,4
3004*	144	144	1	82	2
3005	32	32	0	0	2,3,6
3006	117	119	2	0	2,3,4,6
3007*	0	90	82	8	2,4,5
3008	29	49	13	0	2,5
3009*	0	24	23	1	2
3010	32	50	14	5	2,4,6
3011*	10	25	0	15	2,5
3012	27	31	4	0	2
3013	2	3	1	0	2
3014*	0	12	12	0	2,3,6
3015*	0	4	4	0	2
3016*	0	2	2	0	3,6
3017	12	13	1	0	3
3018*	10	14	4	0	3
3019	0	19	0	0	3,6
3020	64	65	1	0	3,4,6

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3021*	0	23	0	0	3,6
3022	0	75	67	8	3,6
3023	0	50	0	0	4,6
3024	0	24	0	0	4,6
3025*	27	31	4	0	6
3026	0	64	0	0	6
3027	100	101	1	17	5
3028	21	21	0	0	5
3029	25	25	1	0	5
3030	44	45	2	0	5
3031	28	29	1	0	5
3032	23	32	9	0	5
3033*	10	14	4	0	5
3034	12	13	1	0	5
3035*	0	17	17	0	4,5
3036	36	37	1	0	4,5
3037	42	42	0	42	4
3038	19	20	2	0	4
3039	51	52	1	0	4
4002	11	57	16	41	2,4,5
4004*	0	17	9	8	2,4,5
4006	0	58	28	30	3,6
4007	5	95	54	36	4,5
5002*	5	69	61	17	2
5004	7	71	11	60	2
5005*	0	15	2	13	2,3,4
5006*	16	23	9	14	2,4
5007	24	46	24	21	2,4
5008	0	62	0	62	2,3,4,6
5010	0	12	2	10	2
5012*	6	11	6	4	2
5013*	29	46	35	41	2
5014*	34	50	47	3	2
5015*	4	4	4	0	2
5019*	0	41	19	23	2,4,5
5020*	0	13	0	13	2,4
5021*	0	3	0	3	2,4,5
5022*	0	7	1	6	2,3,4,5,6
5023	6	101	6	93	2,4
5024	0	21	0	0	3,6
5026*	0	32	0	0	3,4,6
5027*	0	26	0	0	3,4,6
5028	0	22	4	18	2,3,4,5,6
5029*	13	31	14	25	3
5030	0	17	0	0	3,6
5031*	0	2	0	0	3,6
5032*	0	12	0	0	3,6
5034	0	21	3	18	3,6
5035	29	36	4	3	4,6
5036*	58	95	73	22	6
5037	0	45	5	40	4,6
5038	0	61	0	0	4,6
5043	0	28	4	24	5
5044	0	31	4	27	2,4,5

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5048*	27	27	27	0	5
5049	9	14	9	0	2
5050*	0	5	0	5	4
5053	9	14	9	0	4
5054*	13	13	13	0	4
5055*	19	39	21	9	4, 5
5056*	37	50	50	0	4
5501	43	48	38	0	2, 3, 6
5502	5	73	61	17	2
5517	45	65	45	20	2
5518	50	73	14	23	2
5525	0	8	0	0	6
5529	13	31	14	25	6
5536	58	95	73	22	6
5540	0	18	16	2	5
5541	0	14	0	14	5
5551	0	80	0	0	4
6001*	14	24	0	14	2
6002*	0	44	7	37	2, 4, 5, 6
6003	62	72	58	4	2, 4, 6
6004*	54	77	20	3	2, 4
6006	0	53	0	53	2
6007	25	48	28	20	2, 4, 6
6008*	0	74	73	1	2, 3, 6
6009*	0	61	10	52	2
6010*	30	76	52	25	2
6011	16	49	16	34	2, 6
6012*	40	53	31	0	2
6013*	46	56	9	1	2
6014	39	39	0	1	2, 4
6015	17	24	19	5	2
6016	25	30	15	0	2
6017	24	24	25	0	2, 3, 6
6018*		12	12	0	2
6019	18	22	0	4	2
6020*	0	28	0	0	3, 6
6021	0	36	0	0	3, 6
6022*	0	22	0	0	3, 6
6023*	0	10	0	0	3, 6
6024*	0	48	0	0	3, 4, 6
6025*	21	28	3	4	3, 6
6026*	0	58	0	0	3
6027*	0	37	0	0	3, 5, 6
6028*	0	46	0	0	3, 4, 6
6029	0	43	0	43	3, 4, 6
6030	0	56	0	0	3, 6
6031	0	127	0	0	3, 4, 6
6032*	0	43	0	0	3, 6
6033	7	7	0	0	5
6034*	3	4	0	1	5
6035*	20	36	16	0	5
6037	0	23	0	24	5
6038	0	22	0	0	3, 4, 5
6039*	0	30	18	12	5

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6040*	1	34	1	34	5
6041	18	89	38	51	5
6042*	10	11	1	0	5
6043*	4	11	11	0	5
6044*	1	17	17	0	5
6045*	15	18	2	1	5
6046*	1	15	13	0	5
6047	19	19	0	1	5
6048	44	44	0	26	5
6049	20	20	0	2	5
6051	46	56	30	23	5
6052*	2	86	24	63	4
6053*	18	25	25	0	4
6054*	8	11	2	1	4
6055*	36	59	18	0	4
6513	46	57	9	1	6
7001*	57	66	55	0	2,5
7002*	0	33	27	5	2,5
7003	0	37	36	1	2,3,5
7004*	0	22	21	1	2,5
7005*	9	26	1	17	2,5
7006*	10	32	32	0	2
7007*	0	16	14	2	2,5
7008*	0	15	15	0	2,4,5
7009	0	44	0	44	2,4,6
7010*	14	27	8	0	2
7011	14	27	22	0	2
7012*	17	44	27	2	2,5
7013*	0	45	45	0	2
7014*	0	15	12	3	2
7016*	11	18	4	3	2,3,4
7017*	61	69	29	0	2
7018	38	39	10	0	5
7019*	12	29	7	20	2,5
7021*	60	59	29	3	2,5
7022*	8	32	15	6	2
7023*	66	74	10	22	2
7024	25	25	1	0	2
7025	0	20	20	0	2,5
7026	69	69	0	0	2
7027	35	35	0	0	2
7028	13	13	0	0	2,4,5
7029*	12	17	12	5	2,5
7030*	44	44	44	0	2,4
7031	0	35	0	35	2,4,5
7032*	33	58	53	0	2,5
7033	18	33	0	29	2
7034	22	24	24	0	2,4,5
7035*	32	32	0	0	2,4
7036	45	45	0	0	2,4
7037	34	34	0	4	2
7038	17	52	16	0	2
7039		11		11	2
7040	23	31	20	1	3,6

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7041*	9	26	1	17	3,6
7042*	0	70	50	20	3,4,6
7043*	0	32	0	0	3,6
7044*	14	36	22	0	3,4,6
7045*	17	25	15	2	3,4,6
7046*	0	34	0	0	3,4,6
7047*	0	33	23	10	3,5,6
7048*	29	32	17	0	3,6
7049	0	20	0	0	3
7050*	0	55	0	0	3,4,6
7053	0	47	0	0	4,6
7054*	0	16	16	0	5
7055	34	54	35	0	5
7056	28	46	28	3	4
7057	11	11	0	0	4,5
7058*	48	49	2	30	5
7059	12	12	0	0	5
7060	15	15	0	0	5
7061*	8	8	0	8	5
7062	2	24	22	2	5
7063	9	9	0	0	5
7064*	7	7	0	0	5
7066	8	21	0	17	5
7067	15	18	0	18	5
7068	21	26	13	6	5
7069*	11	16	15	1	5
7070	50	50	0	0	5
7071	30	30	0	0	5
7072	15	15	0	0	5
7073	59	62	13	3	5
7074	75	77	11	30	5
7075*	25	26	14	0	5
7076*	20	20	13	0	5
7077	12	15	1	0	5
7078*	0	15	15	0	5
7079*	0	4	4	0	5
7080*	6	6	0	0	5
7081*	0	11	11	0	5
7082*	6	8	2	0	5
7083	5	9	4	0	5
7084*	0	1	1	0	5
7085*	0	35	0	0	4
7086	8	8	0	0	4
7088	11	11	0	0	4
7089	4	40	36	2	4
7090*	8	8	0	8	4
7091*	83	75	0	36	4
7092	30	56	0	40	4
7093*	66	96	77	7	4
7094	134	134	0	0	4
7095	53	62	9	0	4
7096	33	37	12	3	4
7097	88	94	23	44	4
7099	12	15	1	1	4

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7518	38	40	10	0	2
7552	47	48	27	0	6
7598	27	28	10	0	4
8001*	4	27	26	0	2
8002*	4	4	0	0	2, 3, 4, 6
8003*	69	68	0	0	2, 3, 4, 6
8004*	17	17	0	0	2
8005*	2	36	0	34	2, 5
8006*	76	84	8	1	2
8007	53	53	0	0	2
8008	58	58	0	0	2, 4, 5
8009	45	45	0	0	2, 3, 4, 5
8010*	4	37	37	0	2
8011*	0	51	51	0	2, 3, 4, 5
8012*	49	50	25	0	2
8013*	9	39	34	0	2
8014*	24	26	25	0	2, 3, 5, 6
8015*	12	19	15	0	2, 3, 4, 5, 6
8016*	33	39	27	0	2, 3, 4, 6
8017	6	35	34	0	2
8018	70	75	5	0	2, 4, 6
8021	0	24	24	0	2
8022*	40	68	11	45	2, 4, 6
8023	36	89	1	52	2, 6
8024	15	15	0	0	2, 4, 6
8025	40	43	2	0	2, 3, 4, 5, 6
8026	0	19	20	0	2, 4, 5, 6
8027	0	3	3	0	2, 4, 5, 6
8028*	0	7	7	0	2, 5
8029*	106	106	61	0	2
8030	10	14	3	3	2, 3, 6
8031*	9	11	9	0	2, 5
8032*	16	17	1	0	2
8033*	8	8	0	8	2, 5
8034	35	39	7	0	2
8035*	51	90	39	0	2, 5
8036	5	27	22	0	2, 4
8037	67	89	22	0	2
8038*	66	134	33	36	2
8039	1	29	16	13	2
8040*	36	103	29	37	2
8041*	1	43	42	0	2, 4, 5
8043*	0	18	18	0	2
8044*	0	33	34	0	2, 5, 6
8045*	0	10	10	0	2, 3, 6
8046*	0	36	36	0	2, 5
8047*	0	15	15	0	2
8048*	0	37	37	0	2, 5
8049*	7	12	12	0	2
8050*	0	9	9	0	2
8051	0	47	47	0	2
8052	18	19	11	10	2
8053*	21	90	90	0	2
8054	21	61	61	0	2

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8055	27	43	0	36	2
8056*	8	64	64	0	3,6
8057*		39	39	0	3,6
8058*	0	14	14	0	3,6
8060	0	36	0	0	3,6
8061	0	26	26	0	3,6
8062*	61	98	39	11	3
8063*	21	47	47	0	3,6
8064	47	53	27	22	3,6
8065*	29	29	1	0	3,4,6
8066*	10	47	0	37	3
8067*	2	15	15	0	3,6
8068	33	33	0	0	3,6
8069*	59	84	24	0	3,6
8070*	31	35	34	0	3,5
8071*	41	41	0	0	3,6
8072*	7	39	39	0	3,6
8073	0	28	27	0	3,4,5,6
8074	0	45	45	0	3
8075*	0	56	56	0	3,6
8076	59	59	0	0	3,6
8077*	60	60	0	0	3,6
8078*	1	33	32	0	3,6
8079*	50	114	28	37	3
8080*	16	39	21	3	3,6
8081	61	82	23	10	6
8082*	0	21	21	0	6
8083*	0	26	26	0	5
8084*	0	24	24	0	5
8085*	0	6	6	0	5
8087	5	21	19	3	5
8088*	11	52	43	11	5
8089	42	42	26	0	5
8090*	3	20	20	0	5
8091*	44	44	0	0	5
8092*	23	42	25	0	5
8093*	14	48	48	0	5
8094*	13	15	15	0	5
8095	0	14	14	0	5
8096*	16	17	1	0	5
8098*	72	84	59	0	5
8100*	53	54	16	0	5
8101*	0	6	6	0	5
8102	23	26	4	0	4,5
8103*	13	22	5	0	5
8104	107	134	27	0	5
8105	14	35	10	11	5
8106*	10	42	13	29	5
8107*	13	31	20	11	5
8108*	5	34	30	0	5
8109	0	43	43	0	4
8110	0	1	1	0	4
8111*	12	14	14	0	4
8112*	84	146	58	0	4

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8113	86	105	20	0	4
8114*	53	80	1	26	4
8115*	28	80	10	42	4
8116	13	28	17	11	4
8117	12	34	5	17	4
9000	68	68	40	0	4
9001	46	53	3	7	2
9002	1	19	0	18	2,3,6
9003	2	25	13	10	2,3,6
9004	28	28	1	0	2,5
9005*	16	16	5	0	2
9006*	0	13	13	0	2,5
9007	0	11	1	10	2
9008	17	17	0	0	2
9009*	0	17	17	0	2
9010*	2	2	0	0	2,5
9011*	13	14	5	0	2
9012	9	17	17	0	2
9013	8	14	14	0	2,5
9014	33	43	28	0	2,5
9015	0	19	18	1	2,5
9016	24	24	24	0	2,5
9017*	3	16	16	0	2
9018*	15	44	44	0	2
9019*	6	14	9	1	2,3,6
9020*	28	36	7	0	2
9021*	0	25	25	0	2,3,5,6
9022	40	47	47	0	2,5,6
9023	14	49	49	0	2
9024*	1	8	7	0	2
9025*	34	34	0	0	2
9026	28	38	38	0	2,3,5,6
9027	7	63	56	4	2,5
9028*	0	3	0	3	2,3,6
9029*	52	96	44	0	2
9030	9	57	6	49	2
9031	26	52	23	15	2,3,5,6
9032*	0	7	4	3	2
9033	14	16	2	0	2
9034	24	36	13	0	2,5
9035	12	16	4	0	2
9036*	26	26	0	0	2
9037*	15	15	0	0	2,3,6
9038*	101	114	36	0	2
9039	8	69	0	61	2
9040	40	40	24	0	2,3
9041	2	19	19	0	2,3
9042	19	19	19	0	2
9043*	19	19	4	0	2,3
9044*	68	70	4	0	2,3,6
9045*	43	59	16	0	2,4
9046*	0	9	9	0	2
9047*	18	67	67	0	2
9048*	0	9	9	0	3

APPENDIX K

9049	0	1	0	1	3,4,5,6
9050	8	12	4	0	3,4,6
9051*	50	83	34	0	3,4,6
9052*	0	17	17	0	3,4,6
9053*	0	18	9	0	3,5,6
9054	21	50	29	0	3,6
9055*	0	35	0	0	3
9056*	0	30	0	0	3
9057*	95	108	36	0	3,5,6
9058*	6	6	0	0	3,6
9059*	57	102	45	0	3,6
9060	19	22	3	0	3,6
9061*	0	6	4	2	3,6
9062*	0	30	0	0	3,6
9063	9	16	16	0	3
9064*	0	50	0	0	3,6
9065	0	17	0	0	3,6
9066	24	24	0	0	3
9067*	16	16	0	0	3,4,6
9068	0	12	0	0	3,5,6
9069*	0	34	0	0	3,5,6
9071	32	72	0	61	6
9072	64	73	28	8	6
9073	50	50	1	0	6
9074	3	20	17	0	6
9075	26	56	0	30	5
9076	17	35	8	11	5
9079*	0	17	17	0	5
9080*	22	28	19	0	5
9081*	4	6	2	0	5
9083*	21	21	0	0	5
9084*	61	113	113	0	5
9085	44	52	8	0	5
9086	19	32	13	0	5
9087	24	69	0	42	5
9088*	0	6	4	2	5
9090*	22	22	0	0	5
9091*	37	60	24	0	5
9092*	16	20	20	0	5
9093*	4	6	0	4	5
9104	73	75	3	0	4
9105*	0	20	13	7	4

*These harvest units contain high-lead settings, a combination of up-hill yarding and short-span (less than 400 feet) down-hill yarding. Units will be reviewed during Phase II layout to assess the capability of the proposed yarding systems to meet soil resource protection needs.

APPENDIX K

TABLE K-3

ESTIMATE OF AREAS REQUIRING
FULL BENCH OR FULL BENCH AND END-HAUL
ROAD CONSTRUCTION

Table K-3 estimates areas where full bench or full bench and end-haul may be necessary.

On slopes of greater than 55 percent full-bench road construction and end-haul and disposal of waste material will generally be required. On very high hazard, MMI=4 soils, full bench and end-haul of waste materials will be required. In addition, all road construction on very high hazard, MMI=4 soils, will be investigated by a soil scientist or geo-technical engineer prior to construction to ensure that appropriate construction and mitigation measures will be applied.

The first column in Table K-3 identifies road segments that are between harvest units. The first column identifies the harvest unit which the point of origin, the second column identifies the harvest unit at which the road segment terminates.

The third column identifies road segments which are within harvest units. The length of this road segment is entirely within the identified harvest unit.

The forth column indicates that full bench construction and end-haul and disposal of waste material at a stable site is required for this road segment, and lists the length of the road segment (miles) that the construction applies to.

The last column identifies in which alternatives the road segment is included.

Table K-3

Estimate of Area Requiring Full-Bench
and End-Haul Road Construction

Harvest Unit From	Harvest Unit To	Number Within	Miles of Full Bench Road Construction Required	Alternatives Included In
		2002	.05	2
2002	2003		.05	2
2003	2006		.04	2,5
		2004	.07	2
		2005	.31	2,5
2005	2006		.58	2
		2006	.11	2,5
2006	2007		.63	2
		2007	.12	5
2007	3004		1.15	2,5
		3004	.64	2,4,5,6
		3005	.07	2,3,6
3005	3006		.45	2,4,6

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		3006	.23	2, 3, 4, 5
3006	3008		.21	2, 5
3006	3009		.16	2
		3007	.06	2, 4, 5
		3008	.34	2, 4, 5, 6
3008	Klu Bay		.87	6
		3009	.08	2
Klu Bay	3009		.63	2, 3, 4, 5
		3011	.09	3, 5, 6
		3012	.09	3, 5, 6
3012	Shrimp Bay		.09	3, 4, 5, 6
		3013	.28	3, 4, 5, 6
3013	Shrimp Bay		.13	3, 4, 5, 6
3013	7008		.18	4, 5
		3015	.59	4, 5
		4002	.23	2, 4, 5
4002	4004		.24	2, 4, 5
		4004	.25	2, 4, 5
4004	8037		.14	2, 5
		5001	.21	2, 4
5001	5002		.09	2, 4
		5002	.21	2, 4, 5, 6
5002	5004		.59	4, 5, 6
5002	5021		.20	4
5002	5010		.14	2, 6
5003	5004		.20	2
		5004	.42	2, 3, 4, 5, 6
5004	5011		.14	3, 5, 6
		5005	.31	2, 3, 4, 5, 6
5005	5007		.25	2
5004	5007		.25	2
		5010	.12	2, 3, 6
		5011	.19	2, 3, 4, 5, 6
5011	5017		.27	4, 5
5011	5021		.05	2
		5012	.06	2, 3, 4, 5, 6
		5013	.18	2
		5014	.03	4, 5
5012	Hassler		.06	6
Hassler	5015		.06	2
5015	5017		.15	2
5015	Hassler		.07	3
		5017	.27	2, 4, 5
5017	5018		.30	2, 4, 5
		5018	.21	2, 4, 5
		5019	.34	2, 3, 4, 5, 6
		5020	.09	2, 3, 5, 6
		6005	.07	2, 3
6005	6006		.13	2, 3
6006	Chin Point		.10	4, 5, 6

		6009	.03	2
		6010	.14	5
		6012	.02	2, 4, 6
6012	7010		.06	2, 3, 4, 6
		6013	.51	2, 4, 5
6013	6014		.56	2, 4, 5
		6014	.32	4, 5
		6015	.05	2, 5
6016	6017		.04	2
6017	6018		.05	2
6017	8051		.10	6
SW	6018		.11	2, 3, 4, 6
Neets				
7001	7002		.03	2
		7008	.03	2, 5
7008	7038		.17	2, 4, 5
		7017	.19	2, 3, 5, 6
7017	7018		.23	2, 3, 5, 6
		7018	.24	2, 4, 5, 6
7018	9011		.28	2
		7019	.13	5
		7021	.04	4, 5, 6
		7030	.22	2, 4, 5
7030	7031		.34	2, 4, 5
		7032	.09	2, 4, 5
7032	7033		.51	2, 4, 5
7032	7038		.24	2, 4
7033	7034		.33	4
		7033	.08	2, 5
7034	7035		.16	2, 4
		7035	.36	2, 4, 5
7035	7037		1.55	4, 5
		7037	.22	4, 5
		7038	.19	2, 5
		8002	.02	2, 6
8002	8003		.06	4, 6
8002	Maragret Bay		.06	2, 6
		8003	.05	2, 4, 5, 6
8003	Maragret Bay		.09	2, 4, 5
		8005	.34	2, 5
8005	Margaret Bay		.08	2, 5
		8006	.42	2
		8007	.23	2
8010	8018		.27	2
8010	8022		.28	2
8010	8031		.13	2
8011	8014		.85	4
		8013	.14	5
8013	Margaret		.79	6
8014	8031		.62	2, 3, 5
8015	8025		.32	2, 3, 4, 5, 6

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		8022	.18	2
8022	8024		.56	2
		8024	.04	2
		8025	.42	2,3,4,5,6
8028	8034		1.23	2
		8029	.50	2,3,5,6
8029	8033		.20	2,3,5
		8033	.22	2,5
		8034	.09	2,4
		8035	.35	2,4,5
		8037	.37	2,3,4,5,6
8037	8038		.80	2,3,4,5,6
8037	8041		.21	2,3,4
		8038	.19	2,3,4,5,6
8038	8039		.76	2
8038	8040		.34	2,3,4,5,6
		8040	.19	2,3,4,5,6
		8049	.15	6
		8053	.10	6
		8054	.41	6
		9005	.03	3,4,6
		9009	.25	2,3,4,6
		9010	.18	3,4,6
9010	9012		.09	2,3,4,6
		9012	.14	2,3,4,6
9017	9018		.08	2
9017	9021		.27	2
9017	9036		1.25	2
9017	9042		.75	2
		9018	.12	2,3,4,5,6
9018	9019		.25	3,5
9018	9028		.29	3,6
9018	9038		2.10	4
9018	9040		.17	2,3,6
		9019	.15	2,3,6
		9020	.24	2,4,5
9020	9029		.11	2,4
9020	9036		.13	2
9020	9038		1.10	5
		9023	.07	2,5,6
9023	9027		.18	2,3,4,5,6
9024	9025		.25	2,4
9024	9026		.91	4
		9025	.23	2,4,5
9025	9026		.47	2,4,5
		9026	.32	2,3,4,5
		9027	.19	2,3,4,5,6
		9028	.11	4
9028	9032		.48	2,3,4,6
		9029	.27	2,3,4,5,6
9029	9030		.14	2,5
9029	9034		.45	2,3,6
		9030	.16	2,5
		9032	.03	2,3,4,6

	9034	.37	2,3,5,6
	9037	.03	2,3,6
	9038	.69	2,3,4,5,6
	9042	.16	2
9042	9043	.43	2
9043	9044	.02	2,5,6
	9044	.09	2,4,5,6
9044	9045	.74	2,4,5,6
	9045	.07	2,4,6
	9046	.36	4,6
	9047	.02	2,5
Total	Alternative 2	34.95	
	Alternative 3	12.98	
	Alternative 4	27.17	
	Alternative 5	26.74	
	Alternative 6	17.04	

Unit Cards
part 1

APPENDIX K

UNIT CARDS

Unit cards have been developed for each harvest unit and associated road proposed for the North Revilla Environmental Impact Statement (EIS). These cards are intended to display site-specific information, enabling the public to more fully understand harvest implications. They also serve as a mechanism to consolidate information gathered during office/field reconnaissance of the proposed harvest units to Forest Service field personnel, and were used by the Interdisciplinary Team (IDT) for consideration in preparation of the Final EIS.

The Unit Cards consist of two parts: (1) a schematic map, and (2) a detailed description of the unit. The map displays the proposed unit and associated roads in the center of the page. Other features shown include: streamcourses, existing roads, previously harvested areas, contour lines, lakes, saltwater, and eagle nests.

The reverse side of the card provides a physical description of the unit, as well as identification of resource concerns which must be considered during implementation of harvest. The physical description includes the location, planned acreage, estimated sawlog plus utility volume, silvicultural system, predominant forest type, aspect, and a breakdown by volume class, elevation range, and soil mass movement index. Resource considerations are identified for soils, timber, engineering, fisheries/watersheds, wildlife, recreation, visuals, lands, cultural resources, and geology.

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UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>2001</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u> <u>5</u>	VQO <u>MM</u>
Planned acres <u>47</u>		Quad <u>KTND5NES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1174</u>		Mgmt Area <u>K32</u> VCU <u>7320</u>	Plant Series <u>CMM</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Shelter wood</u>		1981 Photo <u>1279-44</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 47 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 10 acres 1200-1500 ft. 34 acres over 1500 ft. 3 acres
Mass movement index: Low 13 acres Medium 0 acres High 34 acres Very High 0 acres
Cedar 0 Hemlock 45 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 47 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 4 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

ACRES: 47 VOLUME: 1174 MBP QUAD(s): KTN05 QUARTER QUAD(s): NES/SEN
 PHOTO NUM.: 1279-44 LANDNET INFO TOWNSHIP 69S RANGE 91E

[illegible]

MAPSCALE 1:12000

ARCUT

EXISTING CLEARCUT
SALTWATER AND LAKES

SALTWATER AND LAKES
CLASS I & II STREAM BUPPER

HB HELICOPTER

SHELTERWOOD
HARVEST
BEACH BUFFER

June 28, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>2002</u>	No. Settings <u>3</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>27</u>		Quad <u>KTND5NES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>808</u>		Mgmt Area <u>K32</u> VCU <u>7320</u>	Plant Series <u>CCS</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-46</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 6 acres VC5 21 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 5 acres 800-1200 ft. 22 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 26 acres Very High 0 acres
Cedar 0 Hemlock 19 Mixed 6 Percent Seen 0 Percent Unseen 100 Aspect South

SOILS

This unit has 26 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 15 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Replanting of yellow and red cedar should be considered.
Recommendation is to perform a prescribed burn after harvest is completed to promote regeneration.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction on 0.05 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

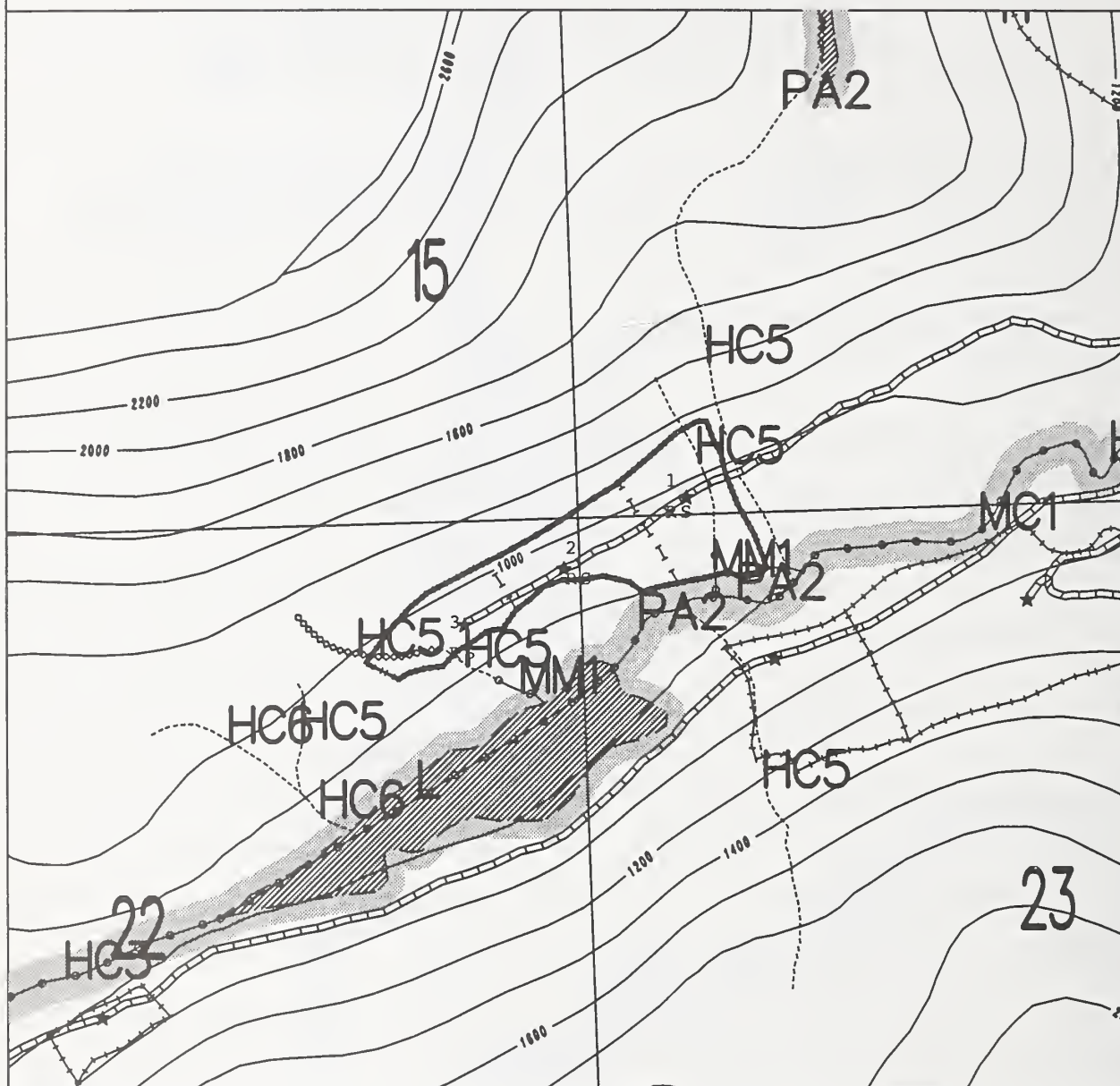
There are no geological mitigation measures anticipated for this unit.

VCU: 7320 UNIT NUMBER: 2002

PLANNED HARVEST UNIT MAP

ACRES: 27 VOLUME: 808 MBP QUAD(s): KTND5 QUARTER QUAD(s): NES
 PHOTO NUM.: 1279-46 LANDNET INFO TOWNSHIP 69S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★
 EAGLE TREE (up arrow)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

RS RUNNING SKYLINE

SHELTERWOOD
 HARVEST
 BEACH BUFFER



June 28, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>2003</u>	No. Settings <u>2</u>	Alternatives considered <u>2</u> <u>5</u>	VQO <u>MM</u>
Planned acres <u>40</u>		Quad <u>KTND5NES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1254</u>		Mgmt Area <u>K32</u> VCU <u>7320</u>	Plant Series <u>CCD</u>
Logging methods <u>SL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>44-88</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 40 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 1 acres 800-1200 ft. 22 acres 1200-1500 ft. 15 acres over 1500 ft. 2 acres
Mass movement index: Low 0 acres Medium 40 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 38 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 40 acres that may require partial or full suspension (BMP 13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 39 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Replanting of yellow cedar should be considered.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction on 0.04 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

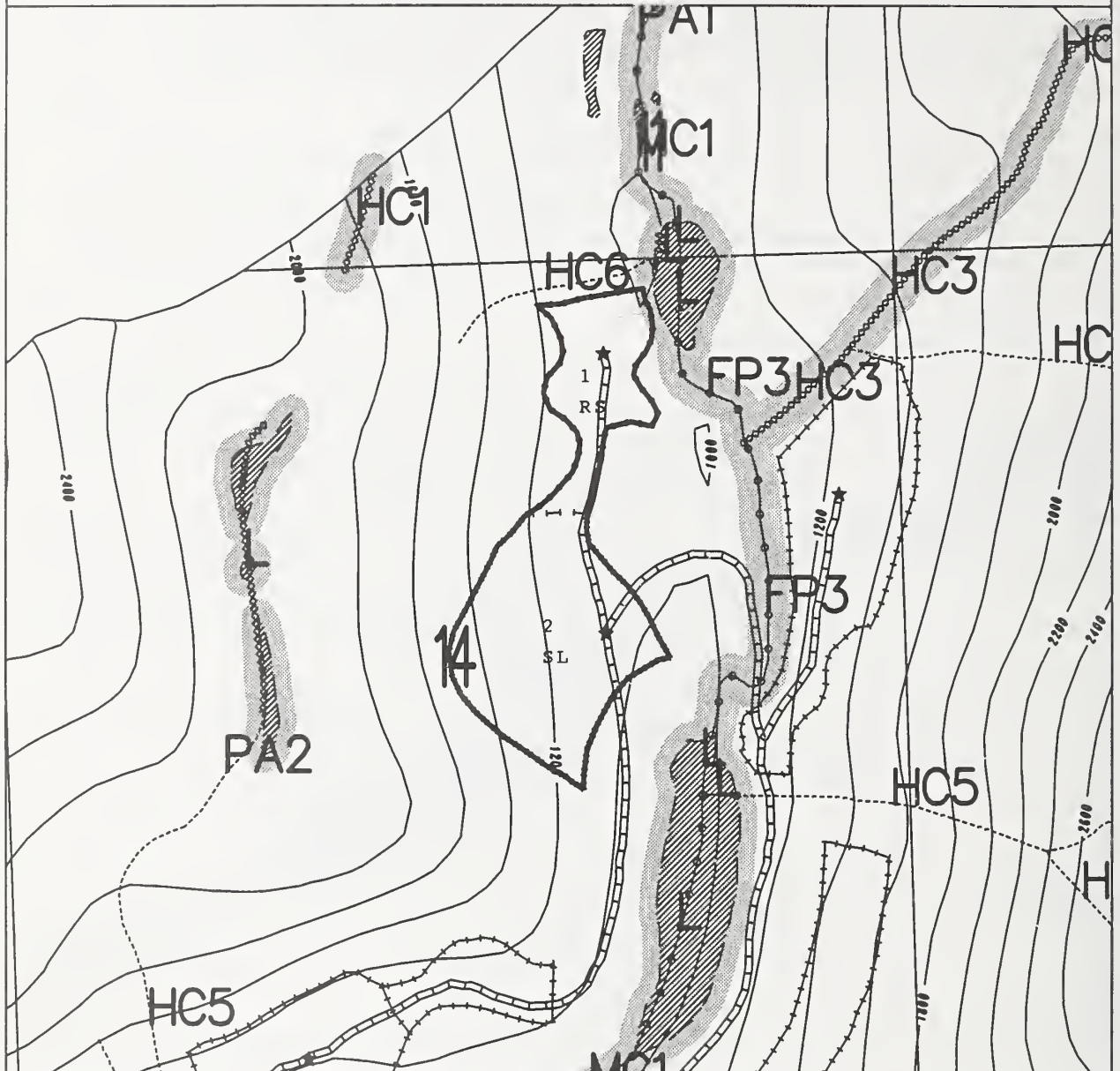
There are no geological mitigation measures anticipated for this unit.

VCU: 7320 UNIT NUMBER: 2003

PLANNED HARVEST UNIT MAP

ACRES: 40 VOLUME: 1254 MBF QUAD(s): KTND5 QUARTER QUAD(s): NES
 PHOTO NUM.: 44-88 LANDNET INFO TOWNSHIP 69S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following
 intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★
 EAGLE TREE (up arrow)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

RS RUNNING SKYLINE
 SL SLACKLINE

SHELTERWOOD
 HARVEST
 BEACH BUFFER



June 28, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>2004</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>30</u>		Quad <u>KIND5NES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>941</u>		Mgmt Area <u>K32</u> VCU <u>7320</u>	Plant Series <u>CCS</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>44-88</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 30 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 9 acres 1200-1500 ft. 21 acres over 1500 ft. 0 acres
Mass movement index: Low 12 acres Medium 18 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 30 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 20 acres that may require partial or full suspension (BMP 13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
Oversteepened slopes may require full bench construction on 0.07 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 2 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

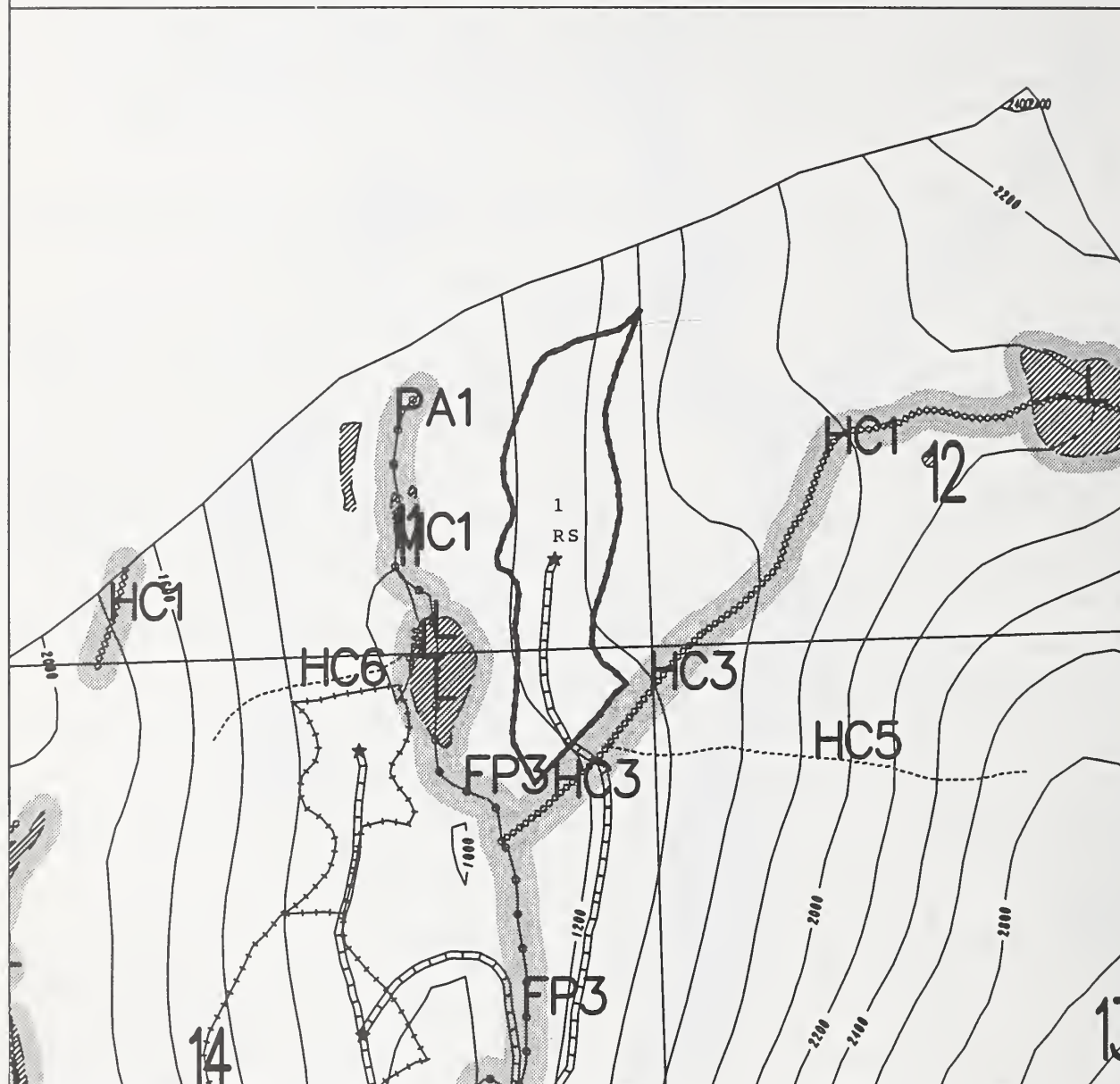
There are no geological mitigation measures anticipated for this unit.

VCU: 7320 UNIT NUMBER: 2004

PLANNED HARVEST UNIT MAP

ACRES: 30 VOLUME: 941 MBP QUAD(s): KTND5 QUARTER QUAD(s): NES
 PHOTO NUM.: 44-88 LANDNET INFO TOWNSHIP 69S RANGE 91R

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★
 EAGLE TREE (↑)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:
 RS RUNNING SKYLINE

SHELTERWOOD
 HARVEST
 BEACH BUFFER



June 28, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>2005</u>	No. Settings <u>4</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>49</u>		Quad <u>KTND5NES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1448</u>		Mgmt Area <u>K32</u> VCU <u>7320</u>	Plant Series <u>WHS</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>44-88</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 14 acres VC5 35 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 5 acres 1200-1500 ft. 13 acres over 1500 ft. 31 acres
Mass movement index: Low 8 acres Medium 7 acres High 34 acres Very High 0 acres
Cedar 0 Hemlock 15 Mixed 33 Percent Seen 20 Percent Unseen 80 Aspect West

SOILS

This unit has 41 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction on 0.89 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.


GEOLOGY

There are no geological mitigation measures anticipated for this unit.

ACRES: 49 VOLUME: 1448 MBP QUAD(s): KTND5 QUARTER QUAD(s): NES
 PHOTO NUM.: 44-88 LANDNET INPO TOWNSHIP 69S RANGE 91P

The topographic map displays contour lines with elevations ranging from 1600 to 2400 meters. Key features include:

- Contour Lines:** Labeled with elevations such as 1600, 1800, 2000, 2100, 2200, 2300, and 2400.
- Shaded Area:** A large, irregularly shaped area in the center-left is shaded and labeled 'L'.
- Rectangular Area:** A rectangular area on the right side is outlined and labeled 'RS'.
- Points and Labels:**
 - MC1:** Located near the bottom left, near a shaded area.
 - HC5:** Multiple locations, including one near the center, one near the top right, and one near the bottom right.
 - FP3:** Located near the top center, near a road.
 - A2:** Located near the top left, near a road.
 - L:** Located within the shaded area.
 - RS:** Located within the rectangular area, near a road.
 - S:** Located within the rectangular area, near a road.
 - 2:** Located within the rectangular area, near a road.
 - 4:** Located within the rectangular area, near a road.
- Roads:** Several roads are shown, including a main road running vertically through the center and a road running horizontally across the bottom.
- Other Features:** A dashed line runs diagonally from the top left to the bottom right. A solid line runs horizontally across the middle of the map.

LANDING ★
EAGLE TREE 

SHELTERWOOD 
HARVEST
BEACH BUPPER 

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>2006</u> Mo. Settings <u>2</u>	Alternatives considered <u>2</u> <u>5</u>	VQO <u>MM</u>
Planned acres <u>48</u>	Quad <u>KTND5NES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1353</u>	Mgmt Area <u>K32</u> VCU <u>7320</u>	Plant Series <u>WHS</u>
Logging methods <u>SL RS</u>	WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>	1981 Photo <u>44-88</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 24 acres VC5 24 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 32 acres 1200-1500 ft. 16 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 2 acres High 46 acres Very High 0 acres
Cedar 0 Hemlock 48 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 48 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 29 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction on 0.74 miles of road
and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

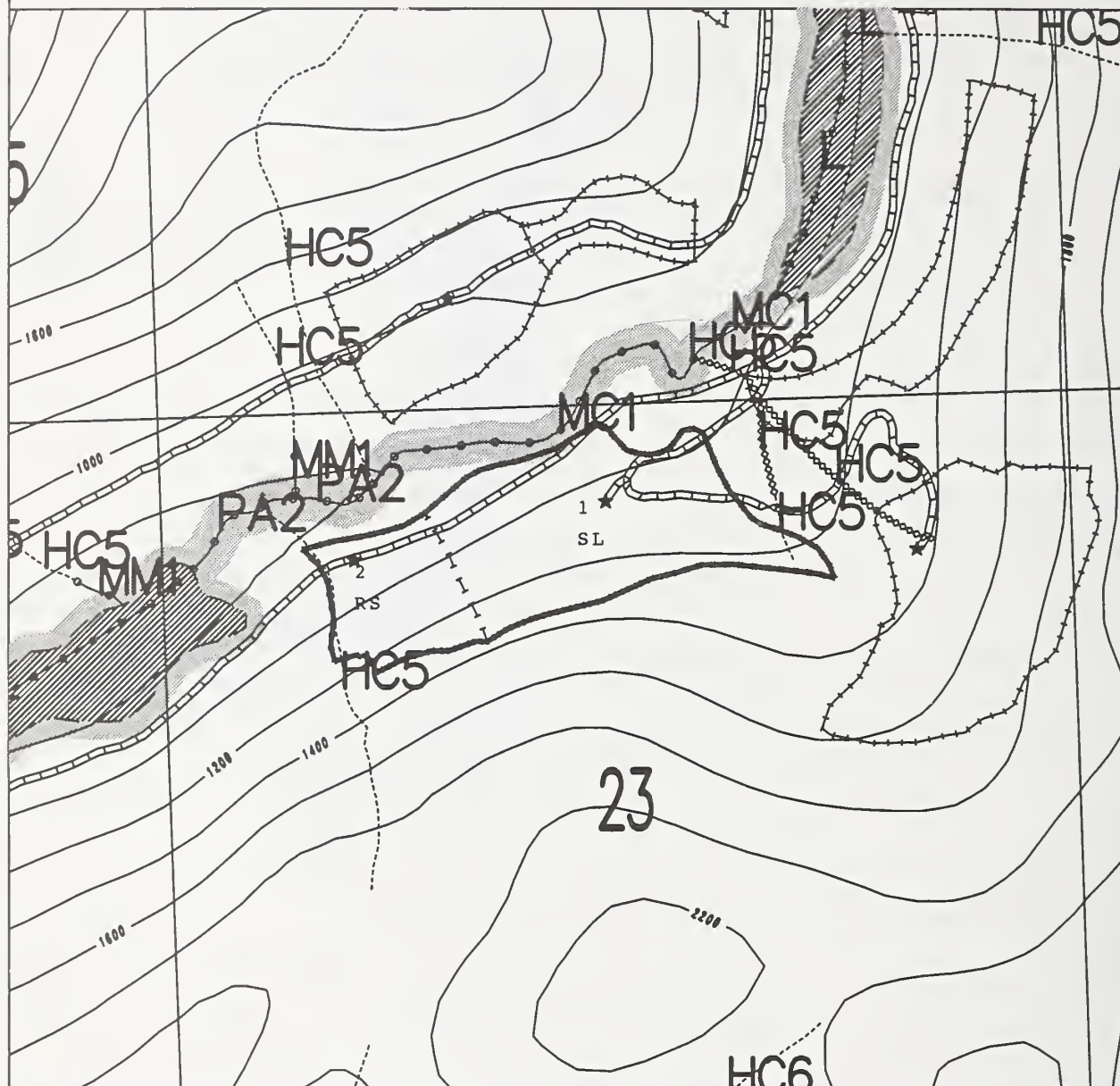
There are no geological mitigation measures anticipated for this unit.

VCU: 7320 UNIT NUMBER: 2006

PLANNED HARVEST UNIT MAP

ACRES: 48 VOLUME: 1353 MBF QUAD(s): KTND5 QUARTER QUAD(s): NES
 PHOTO NUM.: 44-88 LANDNET INFO TOWNSHIP 69S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 BACLE TREE (up arrow)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUPPER



LOGGING SYSTEMS:

SL SLACKLINE
 RS RUNNING SKYLINE

SHELTERWOOD
 HARVEST
 BEACH BUPPER

June 28, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>2007</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>4</u>		Quad <u>KTND5SEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>125</u>		Mgmt Area <u>K32</u> VCU <u>7320</u>	Plant Series <u>WHS</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-44</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 4 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 4 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 4 acres Very High 0 acres
Cedar 0 Hemlock 4 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 4 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction on 1.27 miles of road
and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7320

UNIT NUMBER: 2007

NORTH KEVILLA PROJECT HARVEST UNIT DESIGN CARD

PLANNED HARVEST UNIT MAP

ACRES: 4

VOLUME: 125

MBP

QUAD(s): KTND5

QUARTER QUAD(s): SEN

PHOTO NUM.: 1279-44

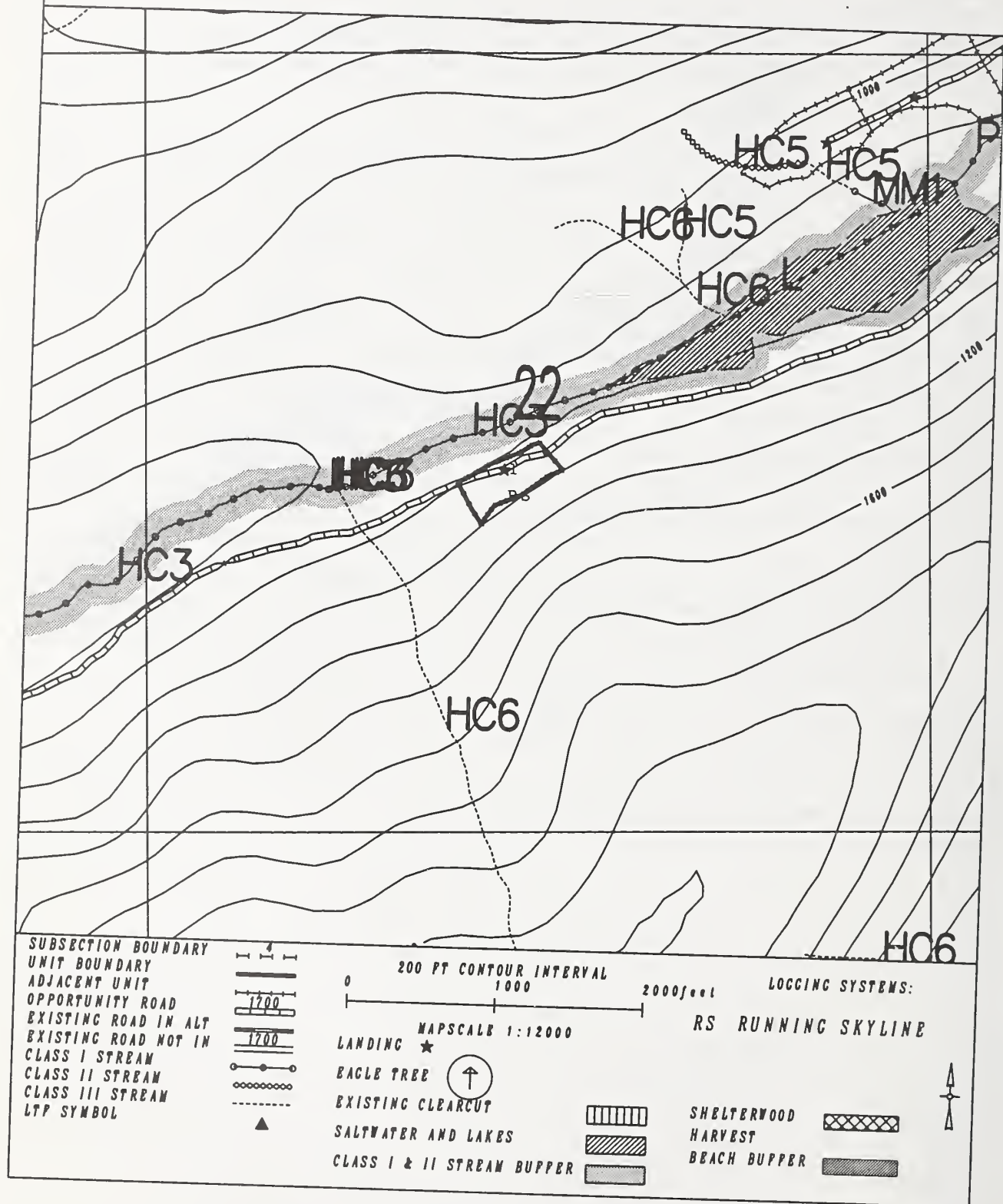
LANDNET INFO

TOWNSHIP

69S

RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



June 28, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>2008</u>	No. Settings <u>2</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>29</u>		Quad <u>KTND5NES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>795</u>		Mgmt Area <u>K32</u> VCU <u>7320</u>	Plant Series <u>CCS</u>
Logging methods <u>HL SL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-45</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 18 acres VC5 11 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 26 acres 1200-1500 ft. 3 acres over 1500 ft. 0 acres
Mass movement index: Low 6 acres Medium 0 acres High 23 acres Very High 0 acres
Cedar 0 Hemlock 29 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect South

SOILS

This unit has 29 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 16 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

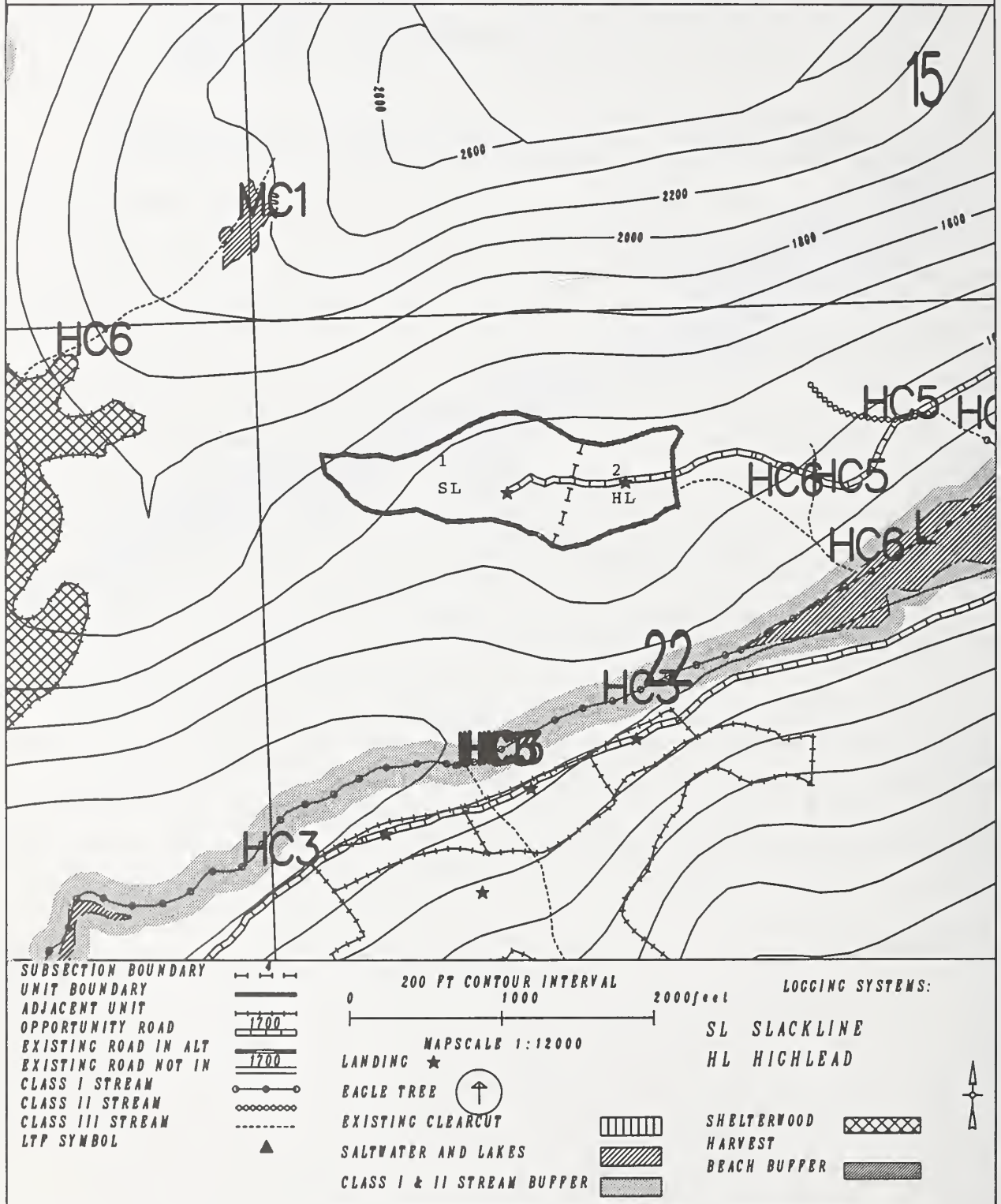
There are no geological mitigation measures anticipated for this unit.

VCU: 7320 UNIT NUMBER: 2008

PLANNED HARVEST UNIT MAP

ACRES: 29 VOLUME: 795 MBP QUAD(s): KTND5 QUARTER QUAD(s): NES
 PHOTO NUM.: 1279-45 LANDNET INFO TOWNSHIP 69S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



June 28, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit 2009	No. Settings 4	Alternatives considered 5	VQO MM
Planned acres 91		Quad KTND5SEN	Windthrow risk H
Estimated volume (mbf) 2388		Mgmt Area K32 VCU 7320	Plant Series WHS
Logging methods RS HE		WAA 510	Forest type Hemlock
Silvicultural system Clearcut		1981 Photo 1279-44	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 73 acres VC5 18 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 4 acres 800-1200 ft. 37 acres 1200-1500 ft. 28 acres over 1500 ft. 22 acres
Mass movement index: Low 10 acres Medium 0 acres High 71 acres Very High 10 acres
Cedar 0 Hemlock 90 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 91 acres that may require partial or full suspension (BMP 13.9)
This unit has very high mass movement index soils.
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 48 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 9 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

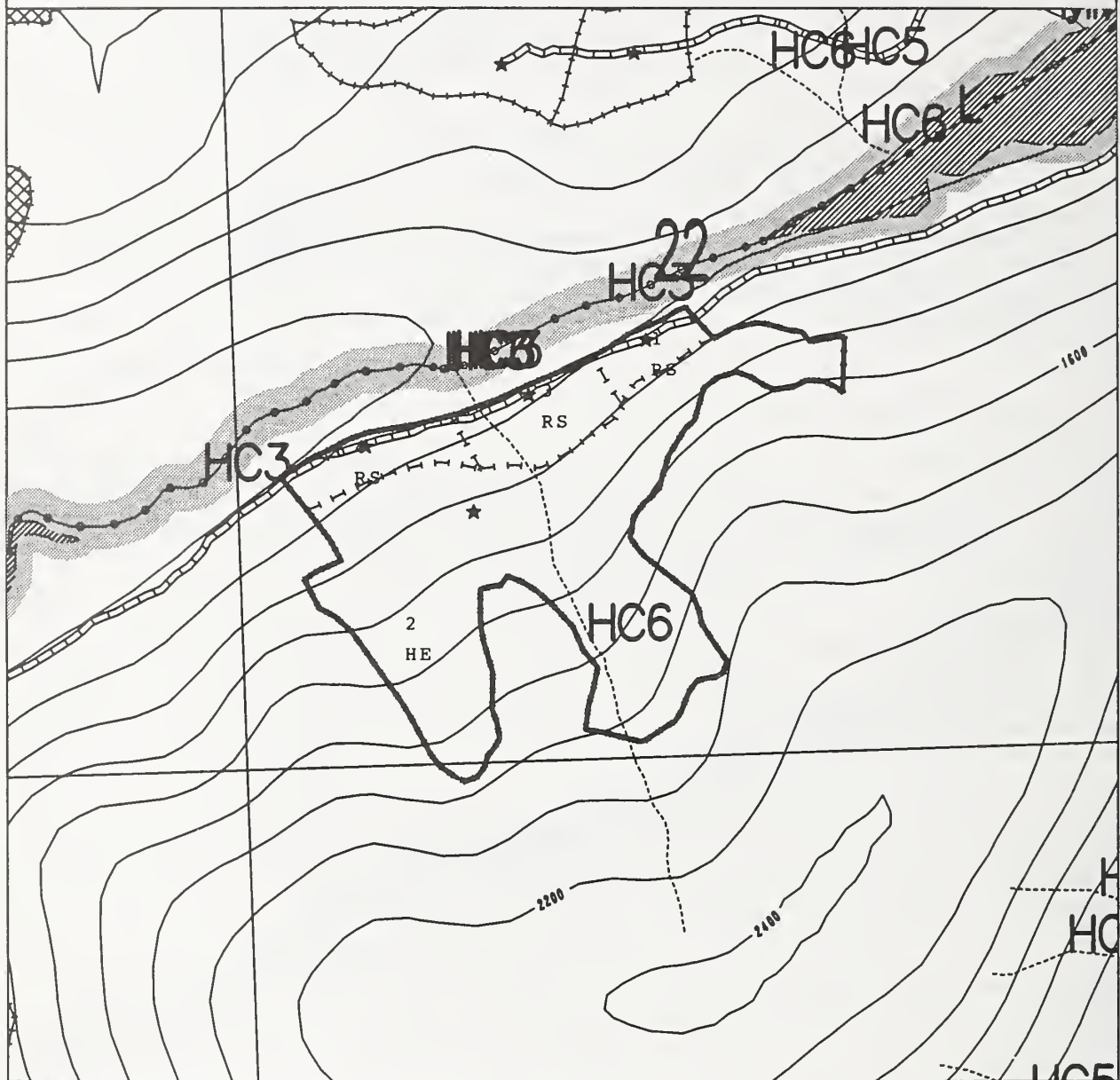
There are no geological mitigation measures anticipated for this unit.

VCU: 7320 UNIT NUMBER: 2009

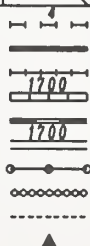
PLANNED HARVEST UNIT MAP

ACRES: 91 VOLUME: 2388 MBP QUAD(s): KTND5 QUARTER QUAD(s): SEN
 PHOTO NUM.: 1279-44 LANDNET INFO TOWNSHIP 69S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 BACLE TREE (up arrow)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUPPER



LOGGING SYSTEMS:

RS RUNNING SKYLINE
 HE HELICOPTER

SHELTERWOOD
 HARVEST
 BEACH BUPPER



June 28, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit 2011	No. Settings	1	Alternatives considered	5	VQO	MM
Planned acres	39		Quad	KTND5NES	Windthrow risk	H
Estimated volume (mbf)	1037		Mgmt Area	K32	VCU	7320
Logging methods	SL		WAA	510	Plant Series	WHS
Silvicultural system	Clearcut		1981 Photo	44-88	Forest type	Hemlock

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 29 acres VC5 10 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 11 acres over 1500 ft. 28 acres
Mass movement index: Low 0 acres Medium 19 acres High 20 acres Very High 0 acres
Cedar 0 Hemlock 28 Mixed 10 Percent Seen 15 Percent Unseen 85 Aspect West

SOILS

This unit has 38 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 18 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

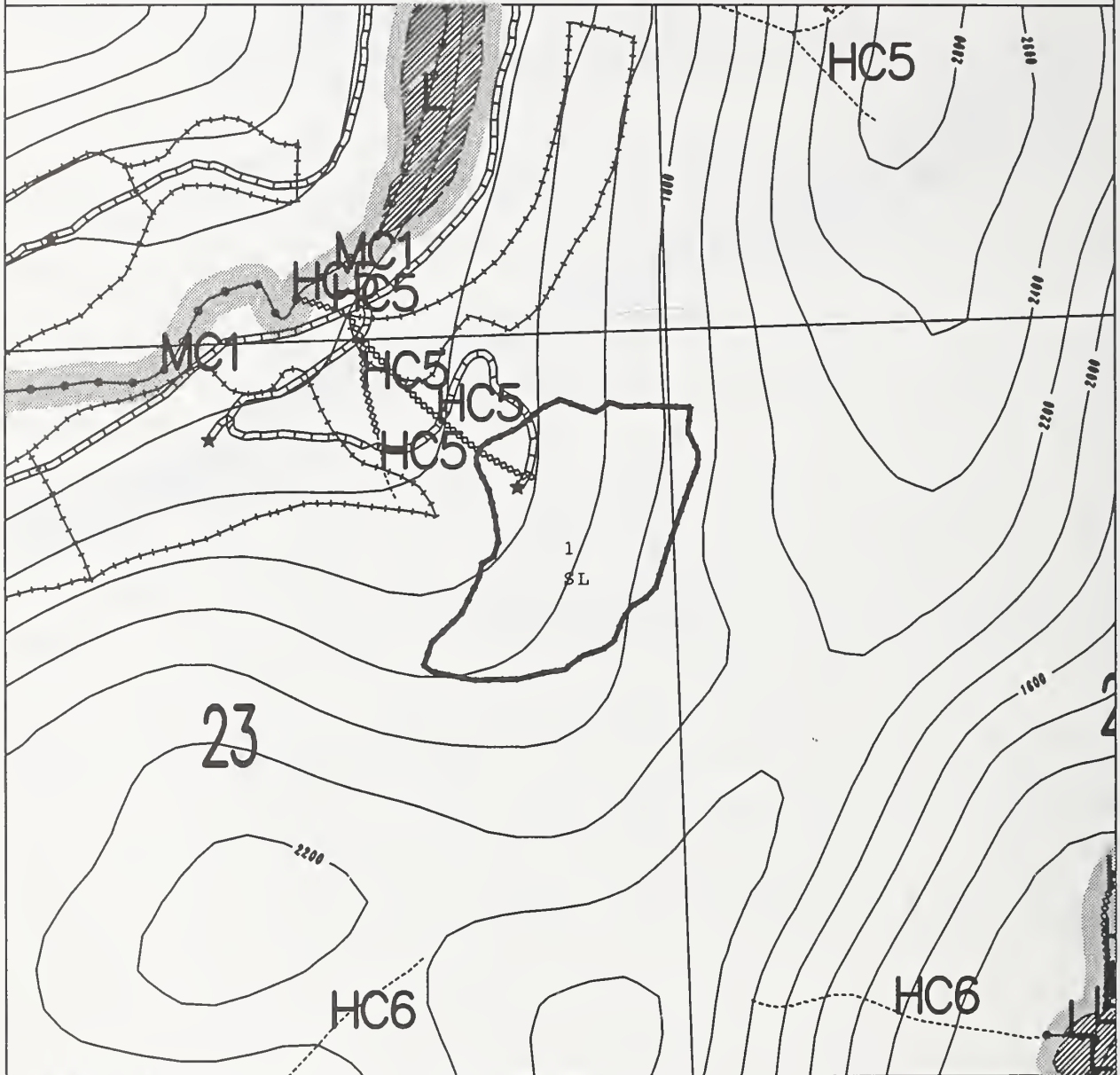
There are no geological mitigation measures anticipated for this unit.

VCU: 7320 UNIT NUMBER: 2011

PLANNED HARVEST UNIT MAP

ACRES: 39 VOLUME: 1037 MBP QUAD(s): KTND5 QUARTER QUAD(s): NES/SEN
 PHOTO NUM.: 44-88 LANDNET INFO TOWNSHIP 69S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following
 Intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

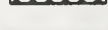
CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

SL SLACKLINE

SHELTERWOOD
HARVEST

BEACH BUFFER



June 28, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>2012</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>20</u>		Quad <u>KTND5NES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>563</u>		Mgmt Area <u>K32</u> VCU <u>7320</u>	Plant Series <u>WHS</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>44-88</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 10 acres VC5 10 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 5 acres 1200-1500 ft. 12 acres over 1500 ft. 3 acres
Mass movement index: Low 7 acres Medium 6 acres High 7 acres Very High 0 acres
Cedar 0 Hemlock 11 Mixed 8 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 20 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

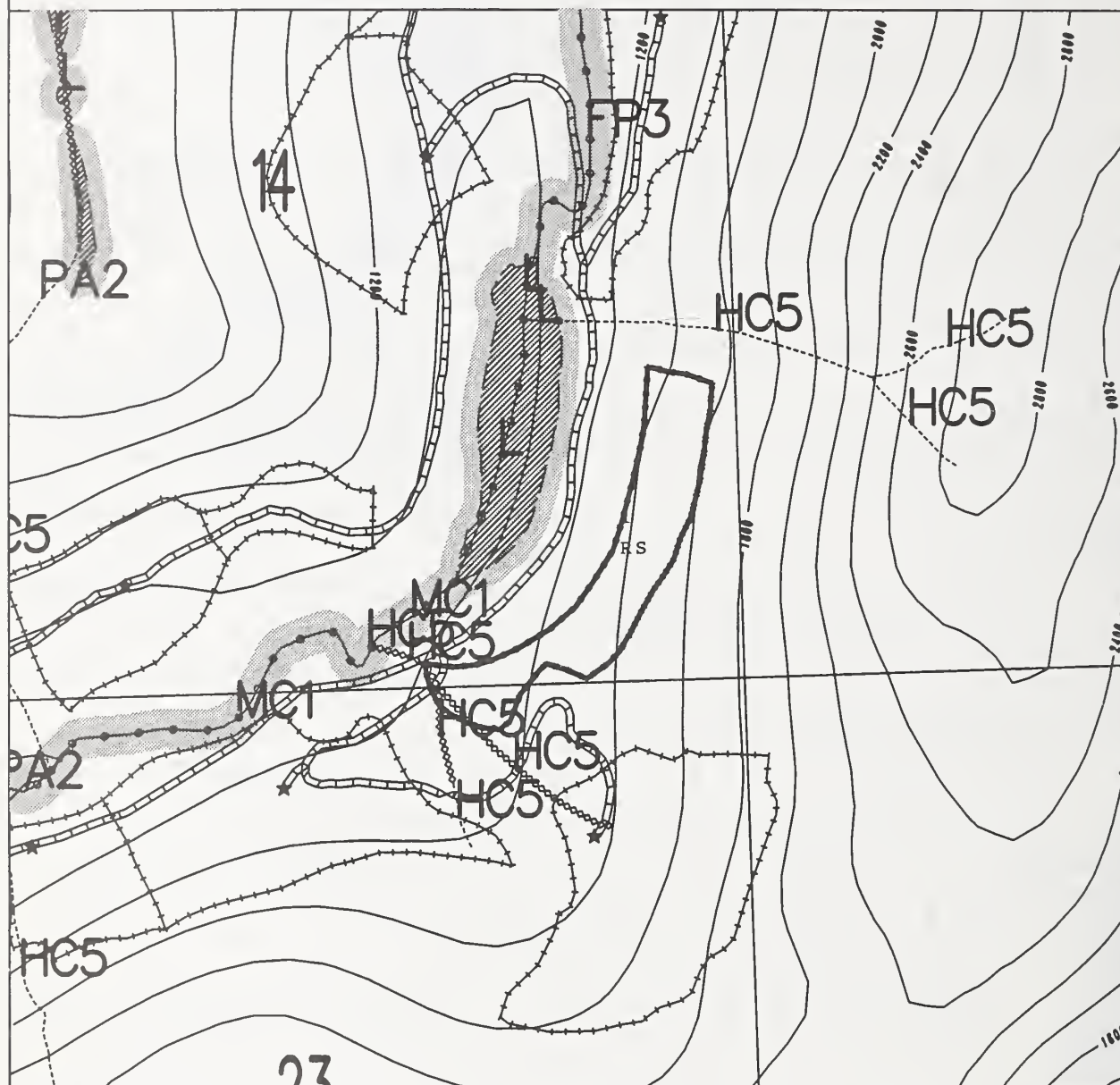
There are no geological mitigation measures anticipated for this unit.

VCU: 7320 UNIT NUMBER: 2012

PLANNED HARVEST UNIT MAP

ACRES: 20 VOLUME: 563 MBP QUAD(s): KTND5 QUARTER QUAD(s): NES
 PHOTO NUM.: 44-88 LANDNET INFO TOWNSHIP 69S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

RS RUNNING SKYLINE

SHELTERWOOD
 HARVEST
 BEACH BUFFER



June 28, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>2013</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>28</u>		Quad <u>KTND5NES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>732</u>		Mgmt Area <u>K32</u> VCU <u>7320</u>	Plant Series <u>SSR</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>44-88</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 23 acres VC5 5 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 12 acres 1200-1500 ft. 16 acres over 1500 ft. 0 acres
Mass movement index: Low 22 acres Medium 0 acres High 6 acres Very High 0 acres
Cedar 0 Hemlock 22 Mixed 6 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 12 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

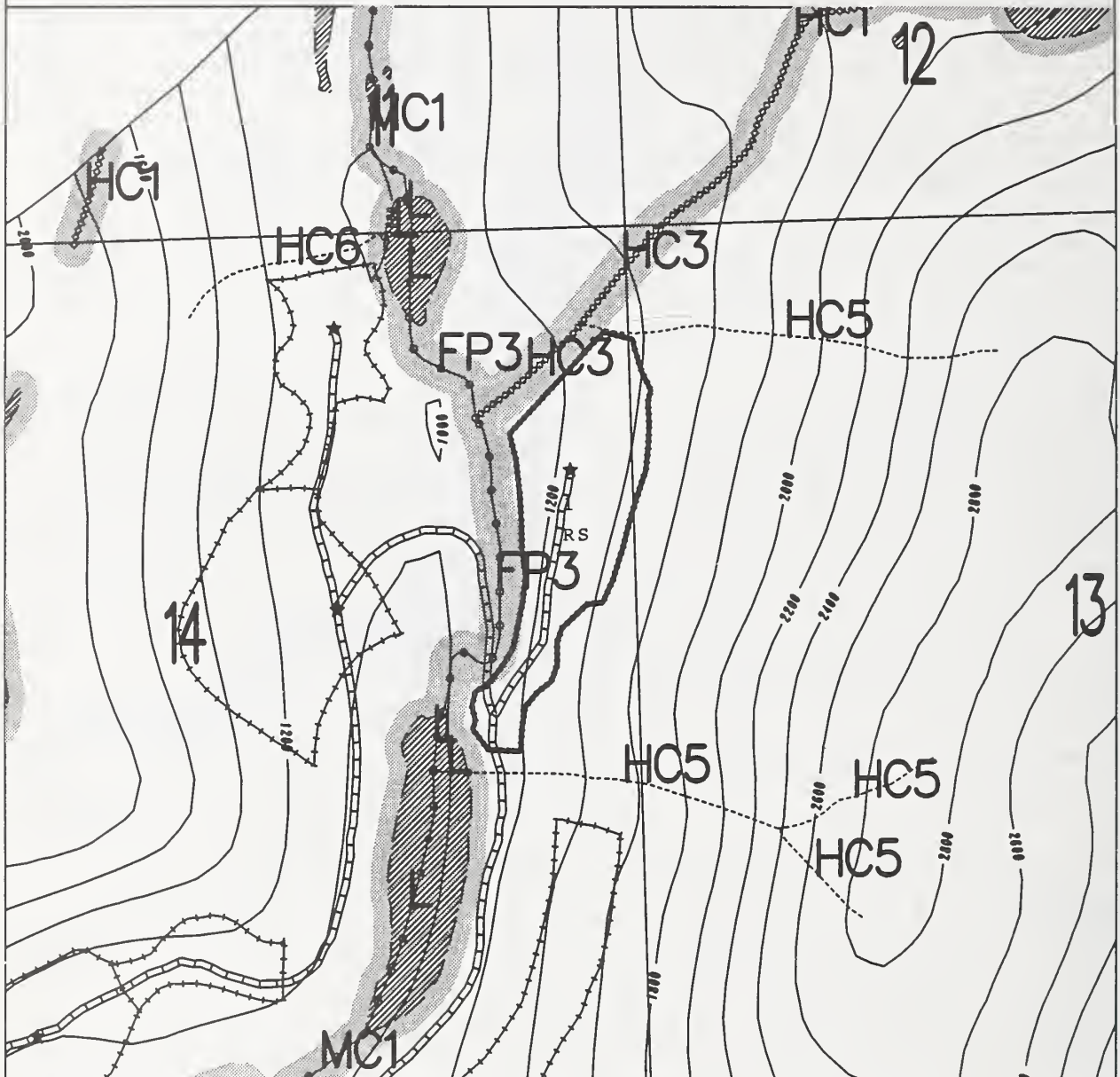
There are no geological mitigation measures anticipated for this unit.

VCU: 7320 UNIT NUMBER: 2013

PLANNED HARVEST UNIT MAP

ACRES: 28 VOLUME: 732 MBP QUAD(s): KTND5 QUARTER QUAD(s): NES
 PHOTO NUM.: 44-88 LANDNET INFO TOWNSHIP 69S RANGR 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following
 intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 BACLE TREE (up arrow)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:
 RS RUNNING SKYLINE

SHELTERWOOD
 HARVEST
 BEACH BUFFER



June 28, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>2510</u>	No. Settings <u>2</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>29</u>		Quad <u>KTND5NES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>865</u>		Mgmt Area <u>K32</u> VCU <u>7320</u>	Plant Series <u>CCS</u>
Logging methods <u>HL SL</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-46</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 7 acres VC5 22 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 21 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 7 acres High 22 acres Very High 0 acres
Cedar 0 Hemlock 10 Mixed 18 Percent Seen 0 Percent Unseen 100 Aspect South

SOILS

This unit has 29 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 12 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

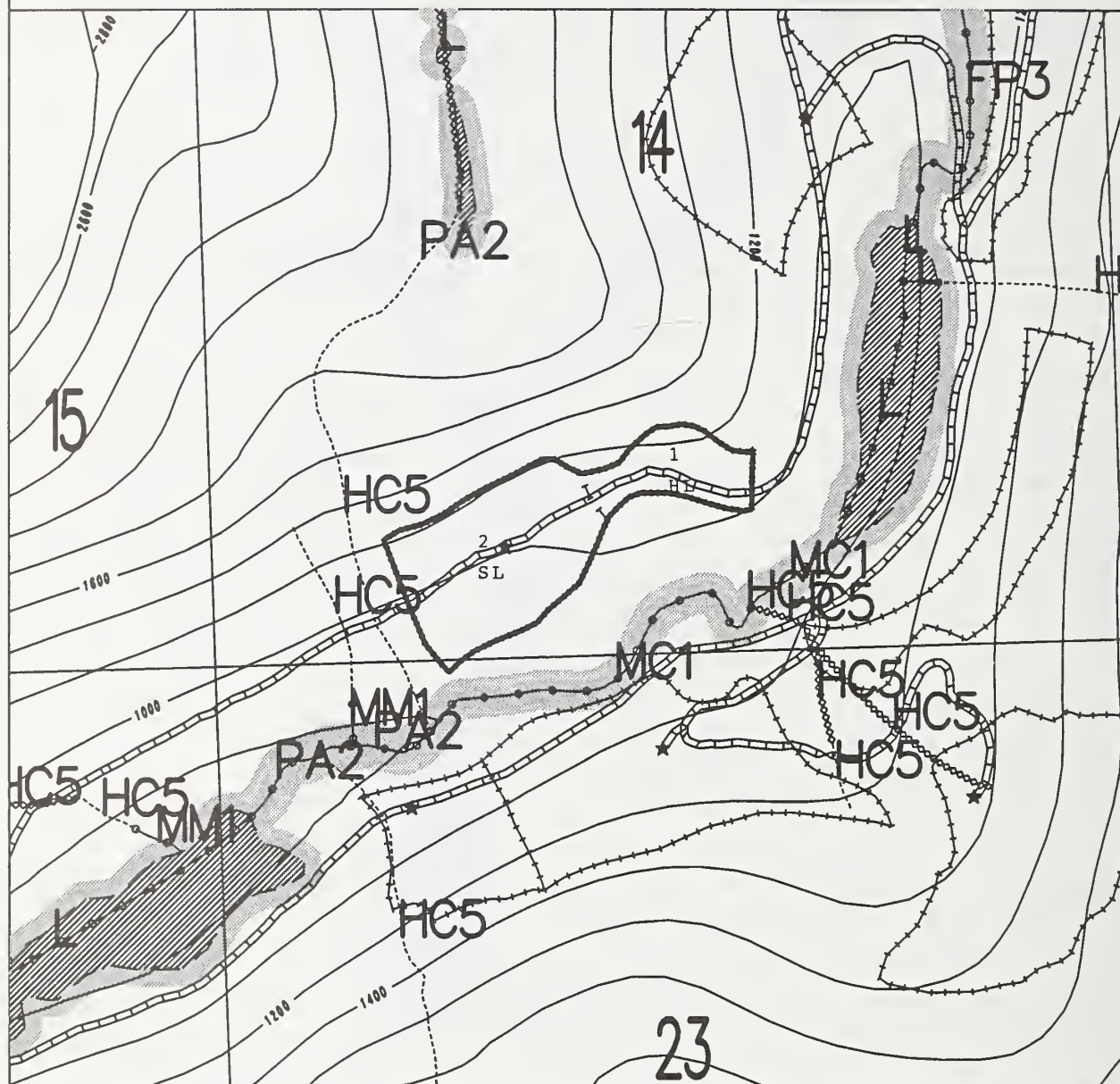
There are no geological mitigation measures anticipated for this unit.

VCU: 7320 UNIT NUMBER: 2510

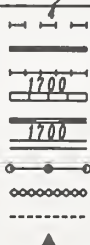
PLANNED HARVEST UNIT MAP

ACRES: 29 VOLUME: 865 MBP QUAD(s): KTND5 QUARTER QUAD(s): NES
 PHOTO NUM.: 1279-46 LANDNET INFO TOWNSHIP 69S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



0 200 FT CONTOUR INTERVAL 1000 2000 feet

MAP SCALE 1:12000

LANDING ★
 BACLE TREE (up arrow symbol)
 EXISTING CLEARCUT (hatched rectangle)
 SALTWATER AND LAKES (diagonal lines rectangle)
 CLASS I & II STREAM BUPPER (solid rectangle)

LOGGING SYSTEMS:

HL HIGHLEAD
 SL SLACKLINE



SHELTERWOOD (vertical lines rectangle)
 HARVEST (diagonal lines rectangle)
 BEACH BUPPER (horizontal lines rectangle)



June 29, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>3001</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u> <u>4</u>	VQO <u>PR</u>
Planned acres <u>20</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>602</u>		Mgmt Area <u>K32</u> VCU <u>7330</u>	Plant Series <u>NME</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-197</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 4 acres VC5 16 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 11 acres over 1500 ft. 9 acres
Mass movement index: Low 17 acres Medium 0 acres High 3 acres Very High 0 acres
Cedar 0 Hemlock 19 Mixed 0 Percent Seen 76 Percent Unseen 24 Aspect South

SOILS

This unit has 20 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 6 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

This unit contains 11 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the SHRIMP BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

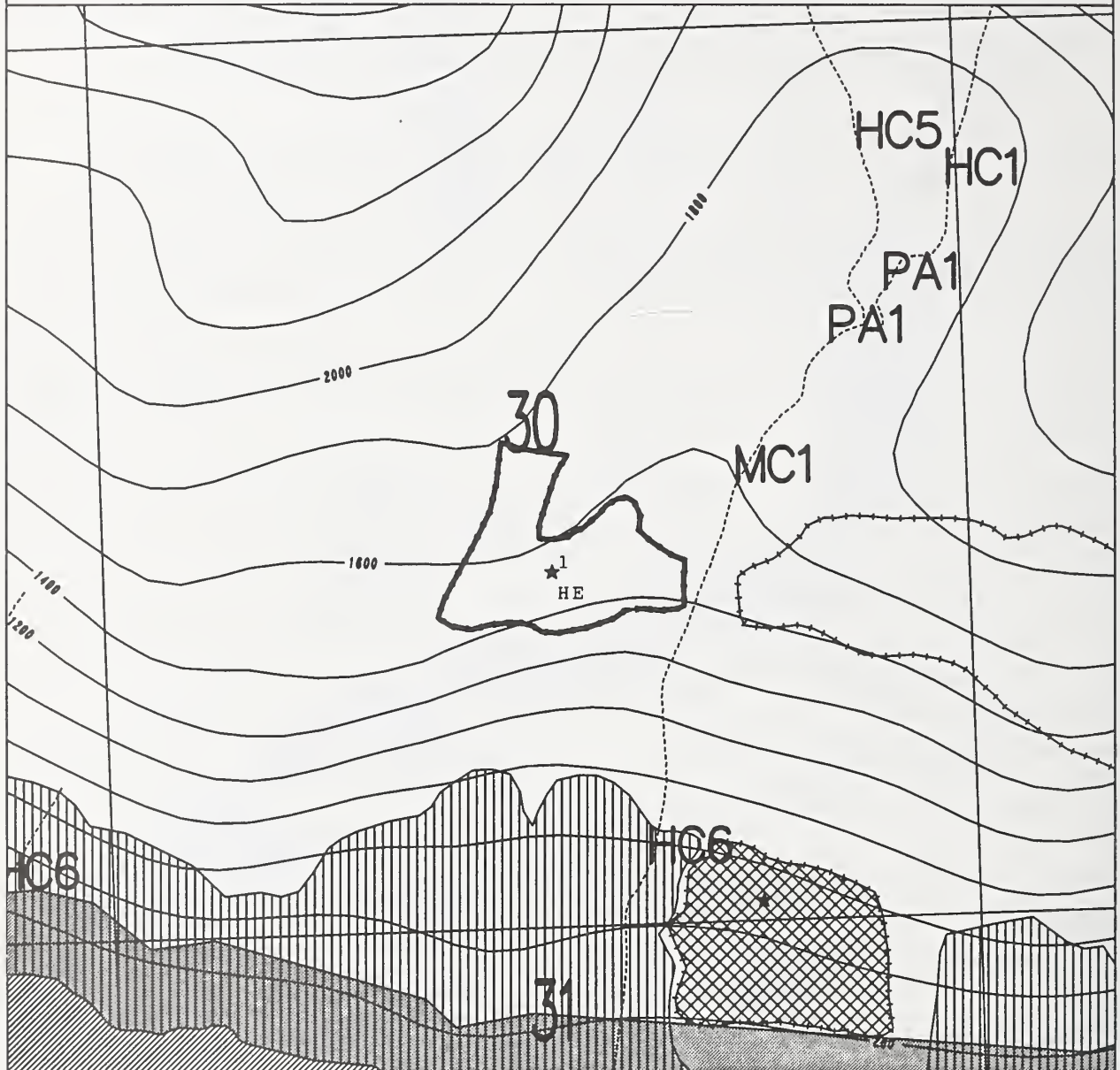
There are no geological mitigation measures anticipated for this unit.

VCU: 7330 UNIT NUMBER: 3001

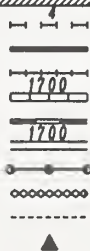
PLANNED HARVEST UNIT MAP

ACRES: 20 VOLUME: 602 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWN
 PHOTO NUM.: 1179-197 LANDNET INFO TOWNSHIP 69S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HE HELICOPTER



SHELTERWOOD



HARVEST



BRANCH BUFFER



June 29, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>3002</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u> <u>4</u>	VQO <u>PR</u>
Planned acres <u>27</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>847</u>		Mgmt Area <u>K32</u> VCU <u>7330</u>	Plant Series <u>CCS</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Shelter wood</u>		1981 Photo <u>1179-197</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 27 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 27 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 27 acres Very High 0 acres
Cedar 0 Hemlock 0 Mixed 26 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 27 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 15 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the SHRIMP BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

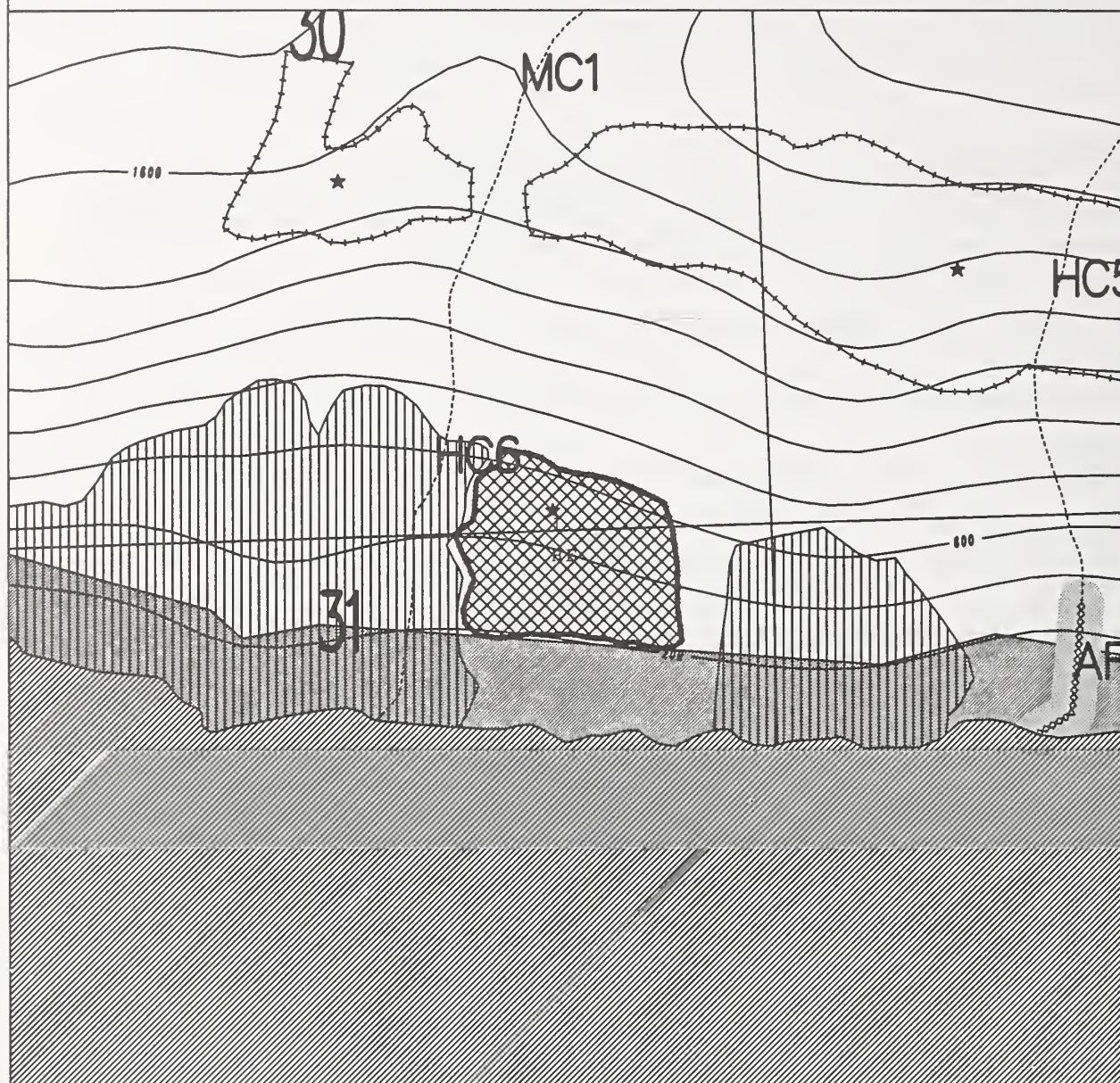
There are no geological mitigation measures anticipated for this unit.

VCU: 7330 UNIT NUMBER: 3002

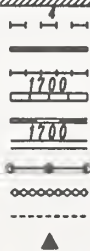
PLANNED HARVEST UNIT MAP

ACRES: 27 VOLUME: 847 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWN
 PHOTO NUM.: 1179-197 LANDNET INFO TOWNSHIP 69S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following
 intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

SCALE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HE HELICOPTER



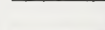
SHELTERWOOD



HARVEST



BEACH BUFFER



June 29, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>3003</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u> <u>4</u>	VQO <u>PR</u>
Planned acres <u>106</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>3101</u>		Mgmt Area <u>K32</u> VCU <u>7330</u>	Plant Series <u>WHC</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-5</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 35 acres VC5 71 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 13 acres 1200-1500 ft. 47 acres over 1500 ft. 46 acres
Mass movement index: Low 35 acres Medium 62 acres High 9 acres Very High 0 acres
Cedar 0 Hemlock 65 Mixed 32 Percent Seen 99 Percent Unseen 1 Aspect South

SOILS

This unit has 106 acres that may require partial or full suspension (BMP 13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 10 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

This unit contains 24 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

Potentially very low volume per acre.

ENGINEERING

This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Maintain diversity within unit by leaving 1-5 acre-sized islands of green trees at a rate of 1 acre of island for every 20 acre harvested. Leave islands must be compatible with logging system and safe working conditions.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the SHRIMP BAY viewshed, approximately a minimum 1/4 mile from shoreline.

There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

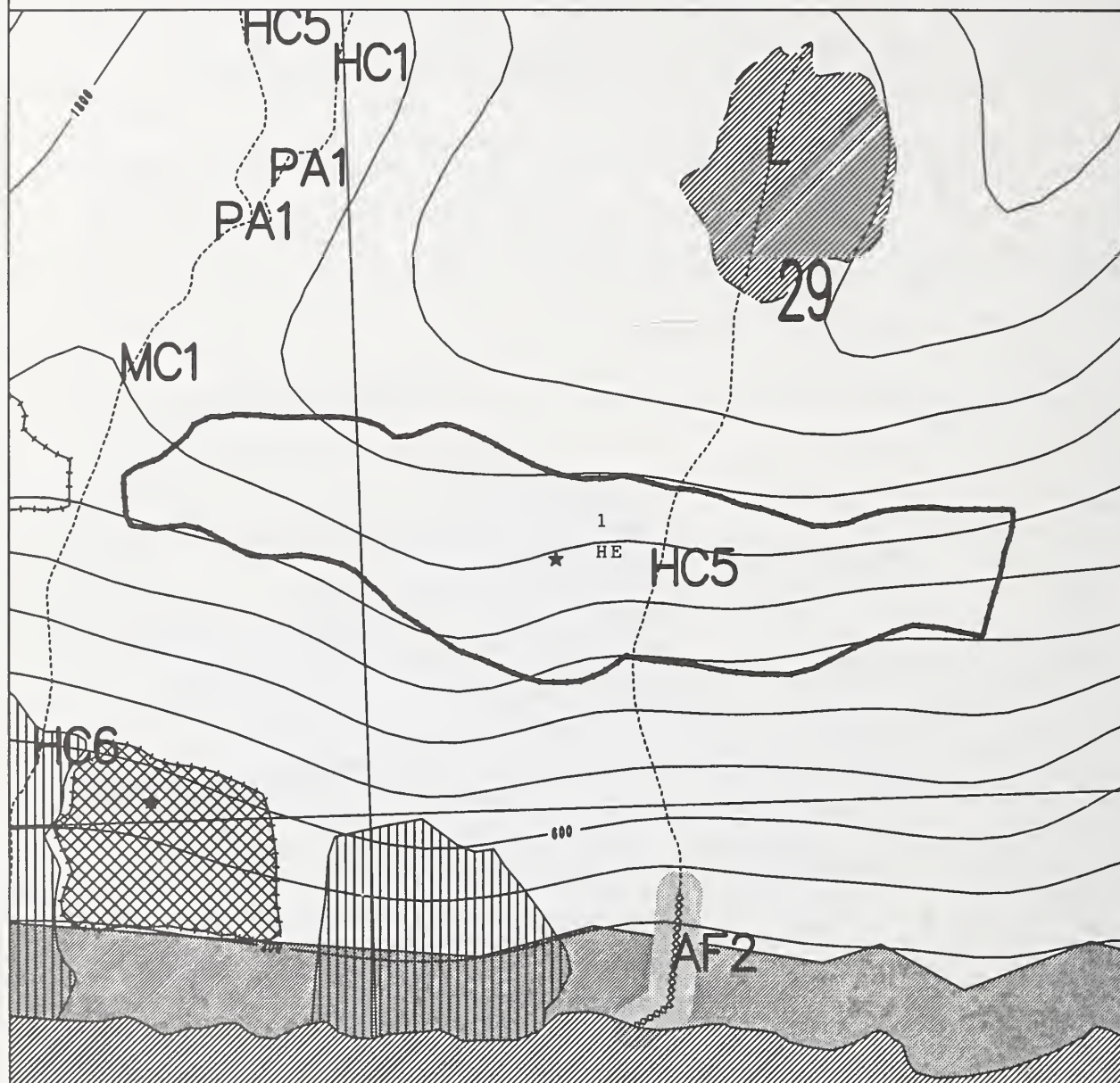
There are no geological mitigation measures anticipated for this unit.

VCU: 7330 UNIT NUMBER: 3003

PLANNED HARVEST UNIT MAP

ACRES: 106 VOLUME: 3101 MBP QUAD(s): KTND5 QUARTER QUAD(s): SEN/SWN
 PHOTO NUM.: 1279-5 LANDNET INFO TOWNSHIP 69S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HE HELICOPTER



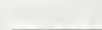
SHELTERWOOD



HARVEST



BEACH BUFFER



June 29, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>3004</u>	No. Settings <u>7</u>	Alternatives considered <u>2</u>	VQO <u>M</u>
Planned acres <u>145</u>		Quad <u>KTND5SEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>4475</u>		Mgmt Area <u>K32</u> VCU <u>7330</u>	Plant Series <u>WHS</u>
Logging methods <u>HL SL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-42</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 22 acres VC5 116 acres VC6 7 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 125 acres 800-1200 ft. 20 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 143 acres Very High 1 acres
Cedar 0 Hemlock 143 Mixed 0 Percent Seen 27 Percent Unseen 73 Aspect West

SOILS

This unit has 144 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas. (BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 83 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).
Oversteepened slopes may require full bench construction on 0.64 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

All trees less than 12 inches DBH within 35 feet of Class III streams, will remain standing in these units.
There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

Maintain diversity within unit by leaving 1-5 acre-sized islands of green trees at a rate of 1 acre of island for every 20 acre harvested. Leave islands must be compatible with logging system and safe working conditions.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the KLU BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

ACRES: 145 VOLUME: 4475 MBP QUAD(s): KTND5 QUARTER QUAD(s): SEN
 PHOTO NUM.: 1279-43 LANDNET INFO TOWNSHIP 69S RANGE 91E

This topographic map shows the study area with contour lines indicating elevation. Key locations and features include:

- Locations:** HC6, HC2, HC3, PA2, MM2, PA1, HC5, and HC2 are labeled throughout the map.
- Shaded Area:** A large shaded area in the upper left is labeled '28'.
- Roads:** A network of roads is shown, including a main road running vertically and several smaller roads branching off.
- Contours:** Contour lines are drawn across the map, with some labeled with numbers like 5, 6, and 28.
- Other Features:** A dashed line labeled 'SL' runs through the center, and a solid line labeled 'RS' is visible near the center.

A vertical column of various mathematical symbols and notation, including:


- A horizontal line with three tick marks above it.
- A solid horizontal bar.
- A horizontal line with four tick marks above it, with "1700" written below it.
- A solid horizontal bar with "1700" written below it.
- A horizontal line with two circles at each end.
- A horizontal line with a diamond in the center.
- A dashed horizontal line.


200 FT CONTOUR INTERVAL


0 1000 2000 feet


MAP SCALE 1:12000

LANDING ★

EAGLE TREE 

EXISTING CLEARCUT 

SALTWATER AND LAKES 

CLASS I & II STREAM BUFFER 

SL
RS
HL
SH
HA
BE

SL SLACKLINE
RS RUNNING SKYLINE
HL HIGHLEAD
SHELTERWOOD 
HARVEST
BEACH BUFFER 

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>3005</u>	No. Settings <u>2</u>	Alternatives considered <u>2</u> <u>3</u> <u>6</u>	VQO <u>PR</u>
Planned acres <u>32</u>		Quad <u>KTND5SEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>798</u>		Mgmt Area <u>K32</u> VCU <u>7330</u>	Plant Series <u>WHS</u>
Logging methods <u>SL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-42</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 32 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 32 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 32 acres Very High 0 acres
Cedar 0 Hemlock 32 Mixed 0 Percent Seen 42 Percent Unseen 58 Aspect South

SOILS

This unit has 32 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 32 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).
Oversteepened slopes may require full bench construction on 0.52 miles of road
and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Harvest operations restricted to April 1 to October 31 to protect trumpeter swans on Margaret, Orchard, Lakes, Klu Bay and the head of Traitors Cove.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the KLU BAY viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

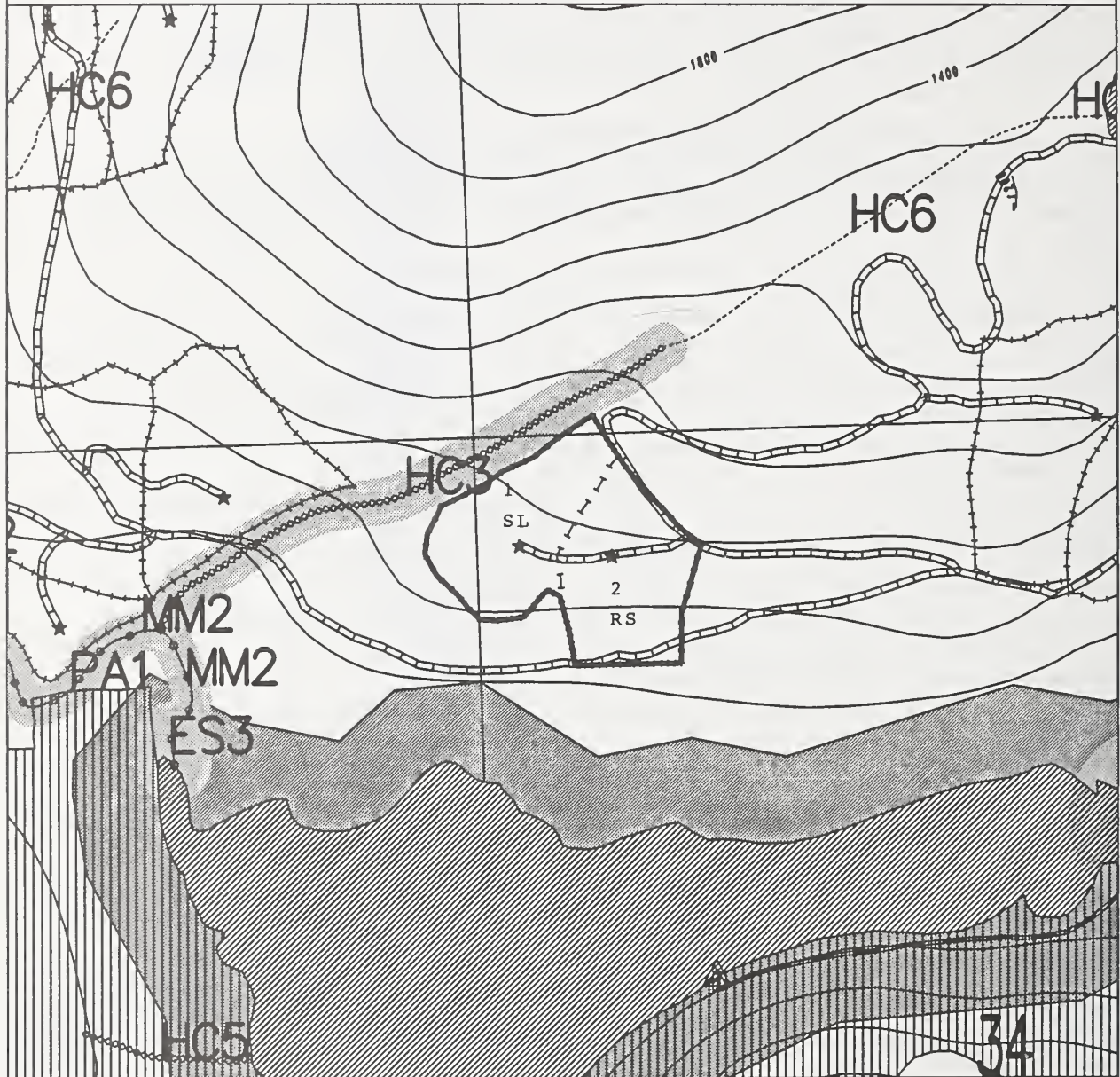
There are no geological mitigation measures anticipated for this unit.

VCU: 7330 UNIT NUMBER: 3005

PLANNED HARVEST UNIT MAP

ACRES: 32 VOLUME: 798 MBP QUAD(s): KTND5 QUARTER QUAD(s): SEN
 PHOTO NUM.: 1279-42 LANDNET INFO TOWNSHIP 69S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following
 Intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (upward arrow symbol)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

SL SLACKLINE

RS RUNNING SKYLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



June 29, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>3006</u>	No. Settings <u>3</u>	Alternatives considered <u>2 3 4 6</u>	VQO <u>PR</u>
Planned acres <u>119</u>		Quad <u>KTND5SEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>3241</u>		Mgmt Area <u>K32</u> VCU <u>7330</u>	Plant Series <u>WHS</u>
Logging methods <u>SL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-50</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 77 acres VC5 42 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 89 acres 800-1200 ft. 30 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 2 acres Medium 0 acres High 117 acres Very High 0 acres
Cedar 0 Hemlock 110 Mixed 9 Percent Seen 98 Percent Unseen 2 Aspect East

SOILS

This unit has 119 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas. (BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 116 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).
Oversteepened slopes may require full bench construction on 0.60 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

All trees less than 12 inches DBH within 35 feet of Class III streams, will remain standing in these units.
There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

Harvest operations restricted to April 1 to October 31 to protect trumpeter swans on Margaret, Orchard, Lakes, Klu Bay and the head of Traitors Cove.
Maintain diversity within unit by leaving 1-5 acre-sized islands of green trees at a rate of 1 acre of island for every 20 acre harvested. Leave islands must be compatible with logging system and safe working conditions.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the KLU BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

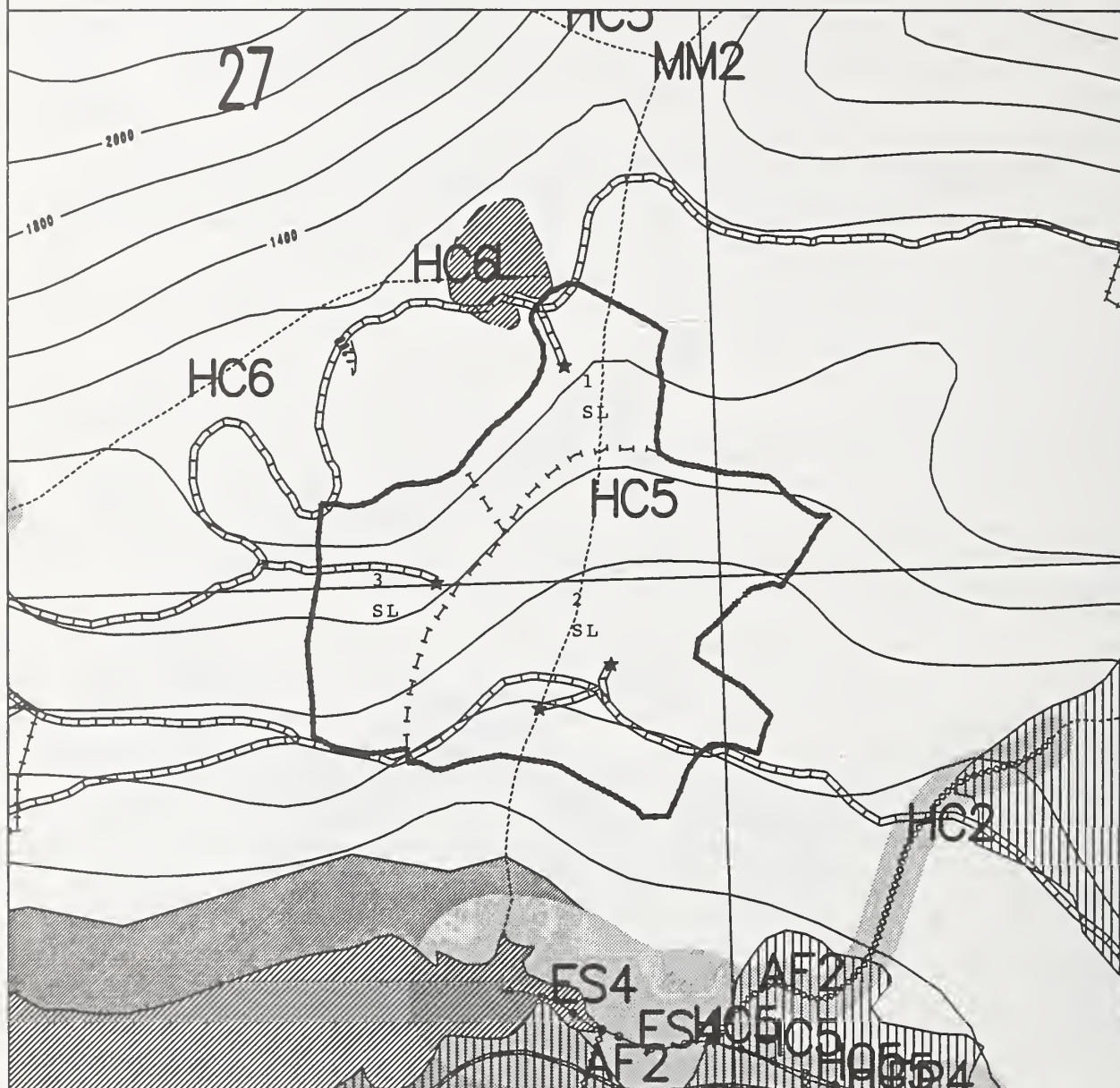
There are no geological mitigation measures anticipated for this unit.

VCU: 7330 UNIT NUMBER: 3006

PLANNED HARVEST UNIT MAP

ACRES: 119 VOLUME: 3241 MBF QUAD(s): KTND5 QUARTER QUAD(s): SEN
 PHOTO NUM.: 1279-50 LANDNET INFO TOWNSHIP 69S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet
 MAP SCALE 1:12000

LANDING ★
 EAGLE TREE (↑)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

SL SLACKLINE

SHELTERWOOD
 HARVEST
 BEACH BUFFER



June 29, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>3007</u>	No. Settings <u>4</u>	Alternatives considered <u>2 4 5 6</u>	VQO <u>M</u>
Planned acres <u>91</u>		Quad <u>KTND5SEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2470</u>		Mgmt Area <u>K32</u> VCU <u>7330</u>	Plant Series <u>CMM</u>
Logging methods <u>HL SL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-92</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 60 acres VC5 31 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 1 acres 800-1200 ft. 57 acres 1200-1500 ft. 29 acres over 1500 ft. 4 acres
Mass movement index: Low 17 acres Medium 74 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 89 Mixed 0 Percent Seen 4 Percent Unseen 96 Aspect South

SOILS

This unit has 90 acres that may require partial or full suspension (BMP 13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 78 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

This unit contains 8 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

Oversteepened slopes may require full bench construction on 0.06 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

All trees less than 12 inches DBH within 35 feet of Class III streams, will remain standing in these units.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the KLU BAY viewshed, approximately a minimum 1/4 mile from shoreline.

There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

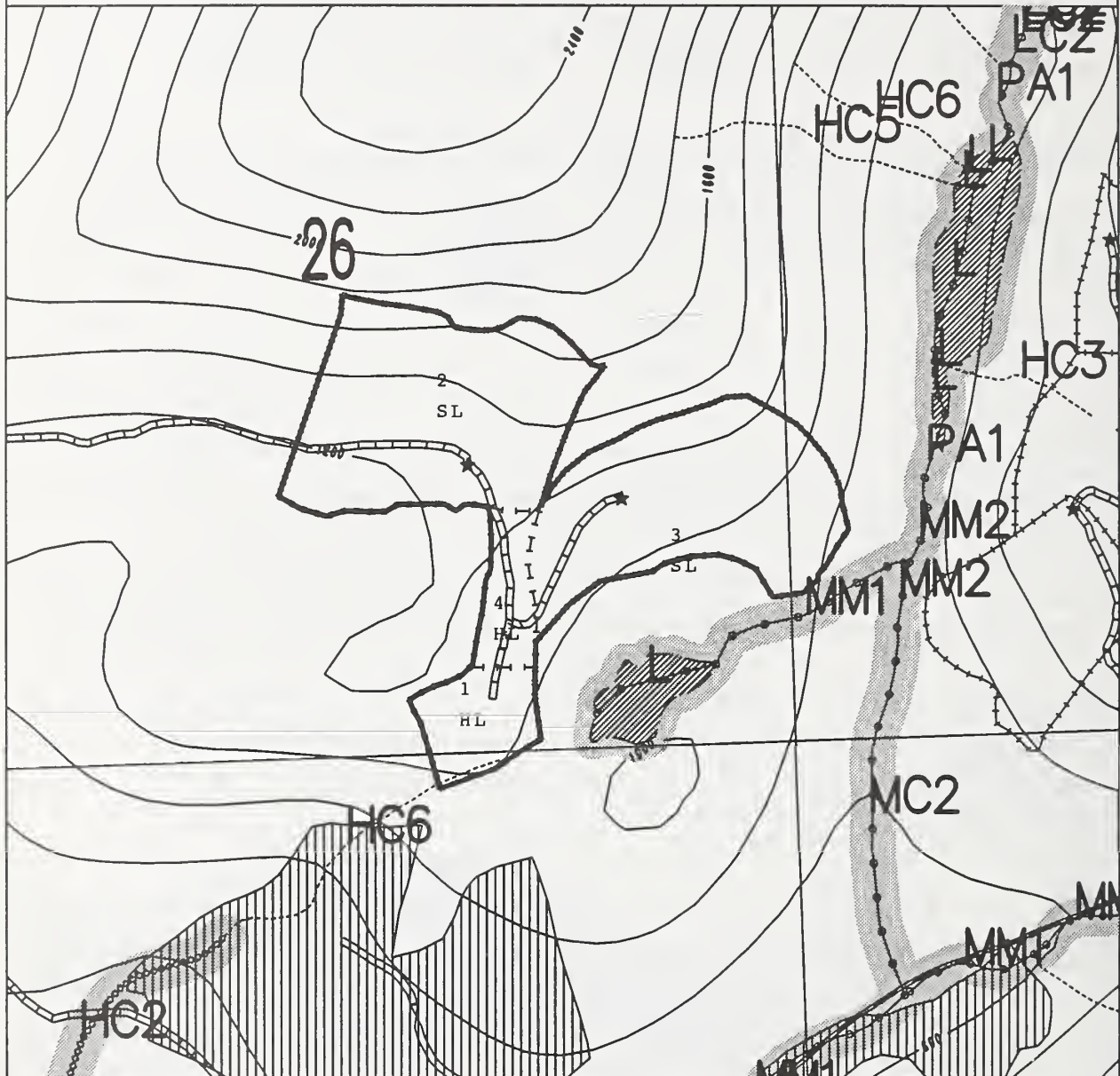
There are no geological mitigation measures anticipated for this unit.

VCU: 7330 UNIT NUMBER: 3007

PLANNED HARVEST UNIT MAP

ACRES: 91 VOLUME: 2470 MBP QUAD(s): KTND5 QUARTER QUAD(s): SEN
 PHOTO NUM.: 1279-92 LANDNET INFO TOWNSHIP 69S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (upward arrow)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGHLEAD

SL SLACKLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



June 29, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>3008</u>	No. Settings <u>2</u>	Alternatives considered <u>2</u> <u>5</u>	VQO <u>MM</u>
Planned acres <u>49</u>		Quad <u>KIND5SEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1249</u>		Mgmt Area <u>K32</u> VCU <u>7330</u>	Plant Series <u>CMM</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-92</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 45 acres VC5 4 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 32 acres 1200-1500 ft. 17 acres over 1500 ft. 0 acres
Mass movement index: Low 13 acres Medium 7 acres High 29 acres Very High 0 acres
Cedar 0 Hemlock 49 Mixed 0 Percent Seen 33 Percent Unseen 67 Aspect West

SOILS

This unit has 49 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 6 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction on 1.21 miles of road
and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 2 streams which have fish passage requirements, of these passes 2 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

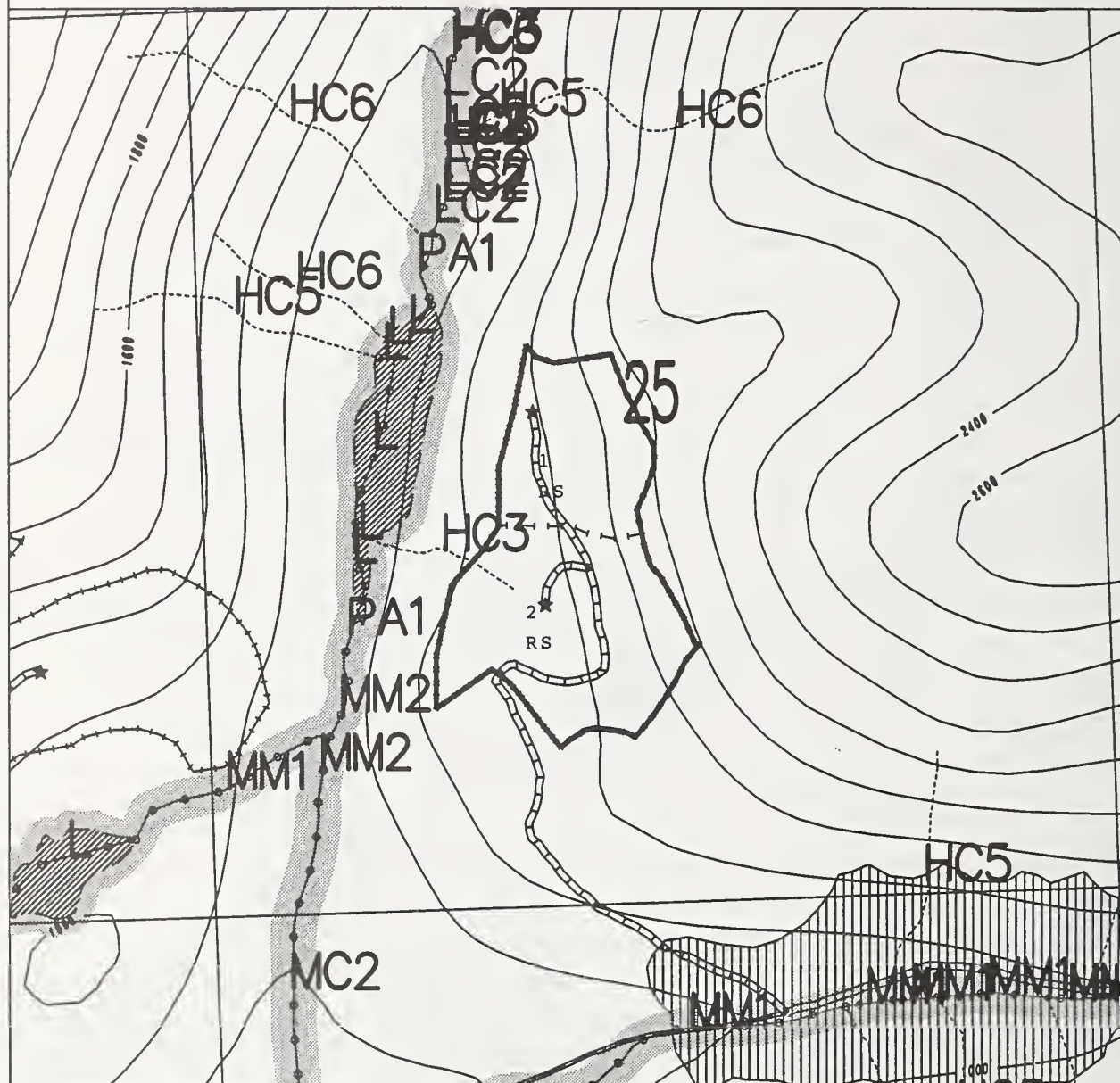
There are no geological mitigation measures anticipated for this unit.

VCU: 7330 UNIT NUMBER: 3008

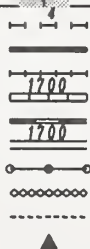
PLANNED HARVEST UNIT MAP

ACRES: 49 VOLUME: 1249 MBF QUAD(s): KTND5 QUARTER QUAD(s): SEN
 PHOTO NUM.: 1279-92 LANDNET INFO TOWNSHIP 69S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (upward arrow symbol)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE



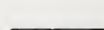
SHELTERWOOD



HARVEST



BEACH BUFFER



June 29, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>3009</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u>	VQO <u>M</u>
Planned acres <u>24</u>		Quad <u>KTND5SEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>917</u>		Mgmt Area <u>K32</u> VCU <u>7330</u>	Plant Series <u>WHC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-90</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 7 acres VC6 17 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 16 acres 1200-1500 ft. 8 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 25 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 25 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has 24 acres that may require partial or full suspension (BMP 13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 23 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Oversteepened slopes may require full bench construction on 0.71 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 6 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the KLU BAY viewshed, approximately a minimum 1/4 mile from shoreline.

There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

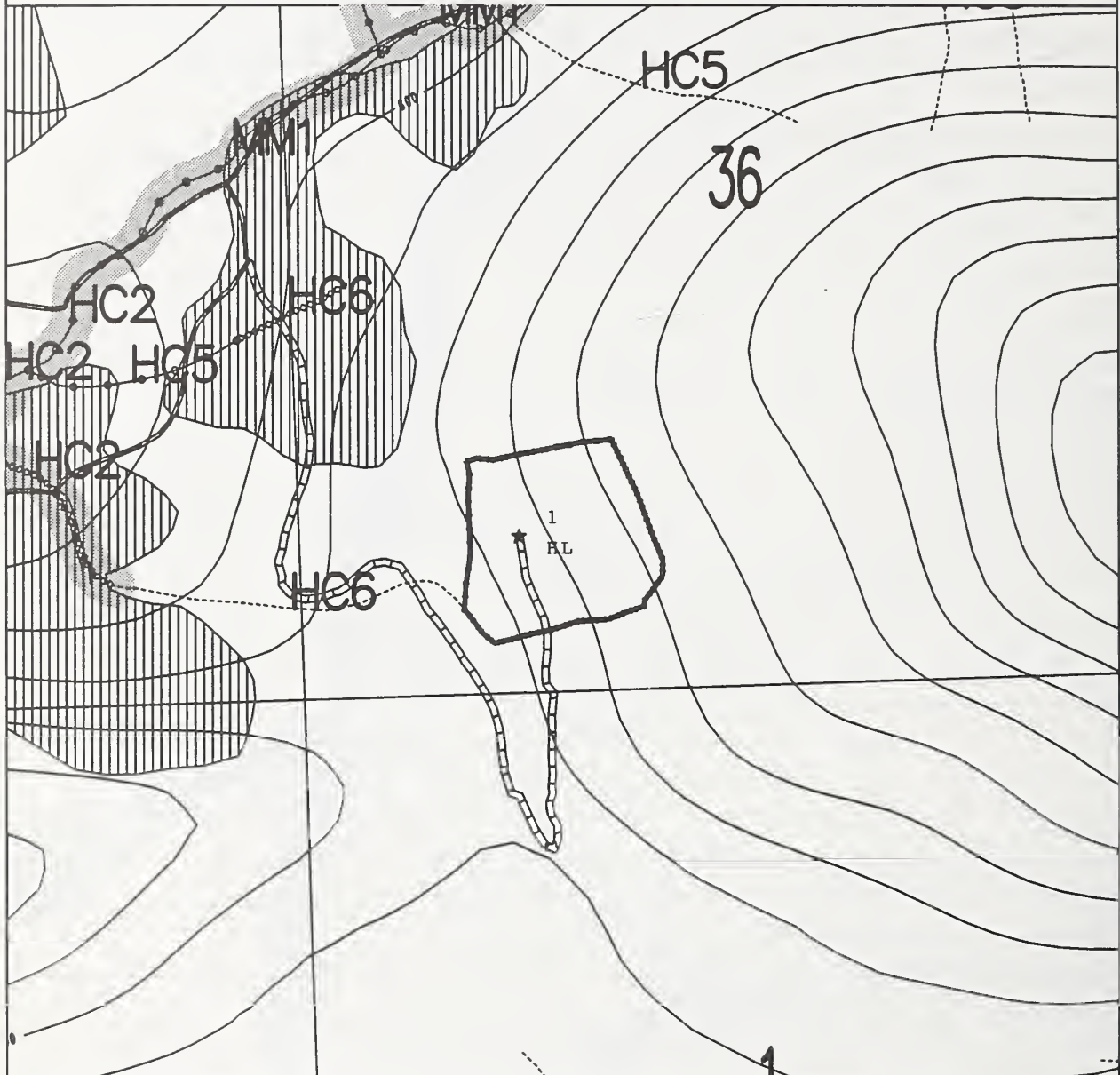
There are no geological mitigation measures anticipated for this unit.

VCU: 7330UNIT NUMBER: 3009

PLANNED HARVEST UNIT MAP

ACRES: 24 VOLUME: 917 MBP QUAD(s): KTND5 QUARTER QUAD(s): SEN
 PHOTO NUM.: 1279-90 LANDNET INFO TOWNSHIP 69S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGHLEAD

SHELTERWOOD
 HARVEST
 BEACH BUFFER



June 29, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>3010</u>	No. Settings <u>4</u>	Alternatives considered <u>2 4 6</u>	VQO <u>PR</u>
Planned acres <u>50</u>		Quad <u>KTND5SEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1504</u>		Mgmt Area <u>K32</u> VCU <u>7330</u>	Plant Series <u>WHS</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-50</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 10 acres VC5 40 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 11 acres 1200-1500 ft. 33 acres over 1500 ft. 6 acres
Mass movement index: Low 4 acres Medium 0 acres High 32 acres Very High 14 acres
Cedar 0 Hemlock 50 Mixed 0 Percent Seen 98 Percent Unseen 2 Aspect North

SOILS

This unit has 50 acres that may require partial or full suspension (BMP 13.9)
This unit has very high mass movement index soils.
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 8 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

This unit contains 44 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Harvest operations restricted to April 1 to October 31 to protect trumpeter swans on Margaret, Orchard, Lakes, Klu Bay and the head of Traitors Cove.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the KLU BAY viewshed, approximately a minimum 1/4 mile from shoreline.

There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7330 UNIT NUMBER: 3010

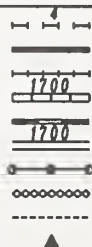
PLANNED HARVEST UNIT MAP

ACRES: 50 VOLUME: 1504 MBP QUAD(s): KTND5 QUARTER QUAD(s): SEN
 PHOTO NUM.: 1279-52 LANDNET INFO TOWNSHIP 69S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HE HELICOPTER

SHELTERWOOD
 HARVEST
 BEACH BUFFER



June 29, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>3011</u>	No. Settings <u>4</u>	Alternatives considered <u>2</u> <u>5</u>	VQO <u>PR</u>
Planned acres <u>46</u>		Quad <u>KTND5SEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1341</u>		Mgmt Area <u>K32</u> VCU <u>7330</u>	Plant Series <u>WHC</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-39</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 16 acres VC5 30 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 46 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 15 acres Medium 21 acres High 10 acres Very High 0 acres
Cedar 0 Hemlock 46 Mixed 0 Percent Seen 22 Percent Unseen 78 Aspect South

SOILS

This unit has 25 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 18 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).
Oversteepened slopes may require full bench construction on 0.09 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the SHRIMP BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

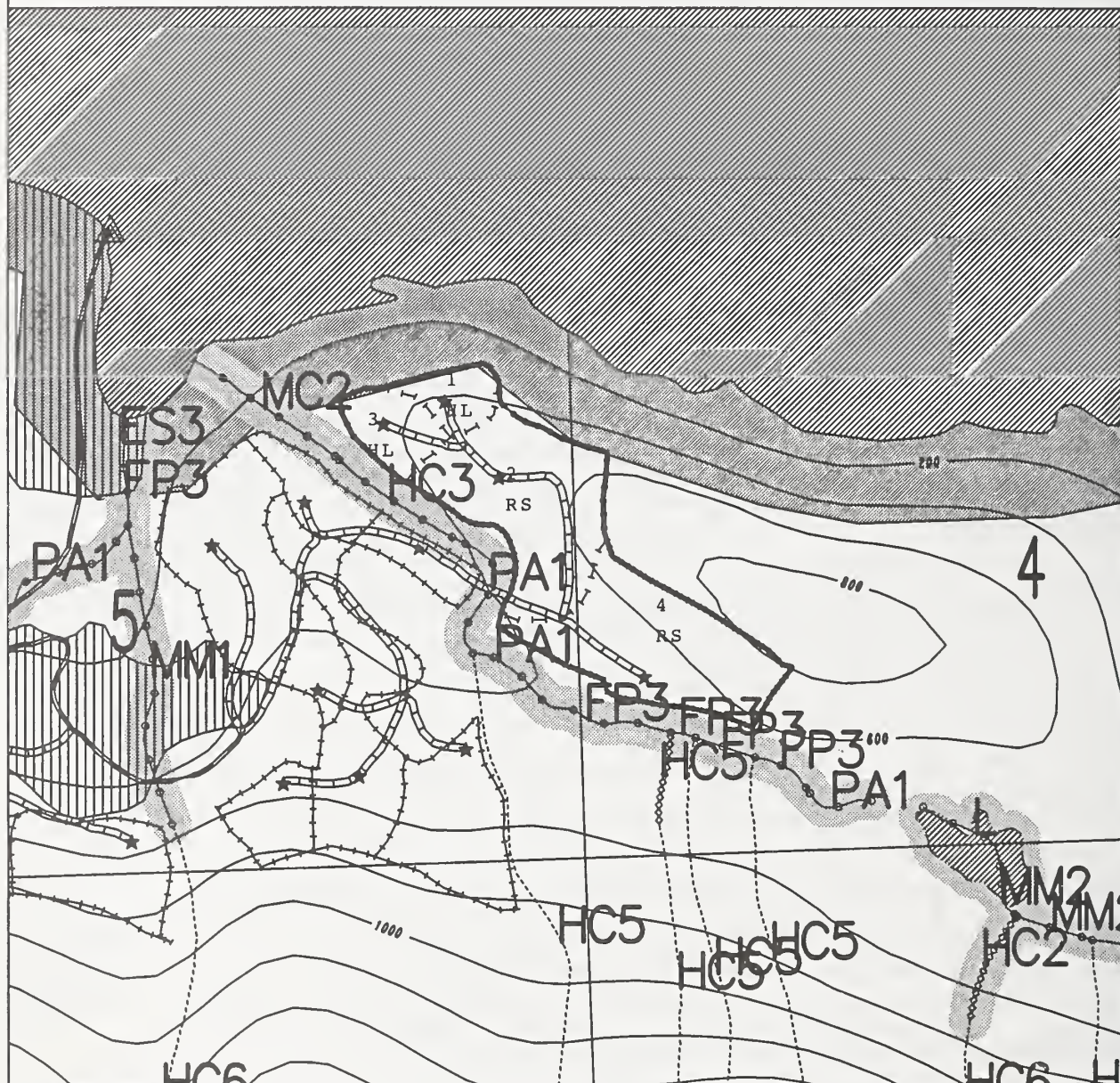
There are no geological mitigation measures anticipated for this unit.

VCU: 7330UNIT NUMBER: 3011

PLANNED HARVEST UNIT MAP

ACRES: 46 VOLUME: 1341 MBP QUAD(s): KTND5 QUARTER QUAD(s): SEN
 PHOTO NUM.: 1279-40 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet
 MAP SCALE 1:12000
 LANDING ★
 EAGLE TREE (upward arrow)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGH LEAD
 RS RUNNING SKYLINE

SHELTERWOOD
 HARVEST
 BEACH BUFFER



June 29, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>3012</u>	No. Settings <u>4</u>	Alternatives considered <u>2</u>	VQO <u>M</u>
Planned acres <u>64</u>		Quad <u>KIND5SEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1898</u>		Mgmt Area <u>K32</u> VCU <u>7330</u>	Plant Series <u>NFS</u>
Logging methods <u>RS</u> <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-114</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 17 acres VC5 47 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 26 acres 800-1200 ft. 25 acres 1200-1500 ft. 13 acres over 1500 ft. 0 acres
Mass movement index: Low 4 acres Medium 33 acres High 27 acres Very High 0 acres
Cedar 0 Hemlock 59 Mixed 3 Percent Seen 60 Percent Unseen 40 Aspect North

SOILS

This unit has 31 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 9 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).
Oversteepened slopes may require full bench construction on 0.18 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 2 streams which have fish passage requirements, of these passes 2 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Harvest operations restricted to April 1 to October 31 to protect trumpeter swans on Margaret, Orchard, Lakes, Klu Bay and the head of Traitors Cove.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the SHRIMP BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

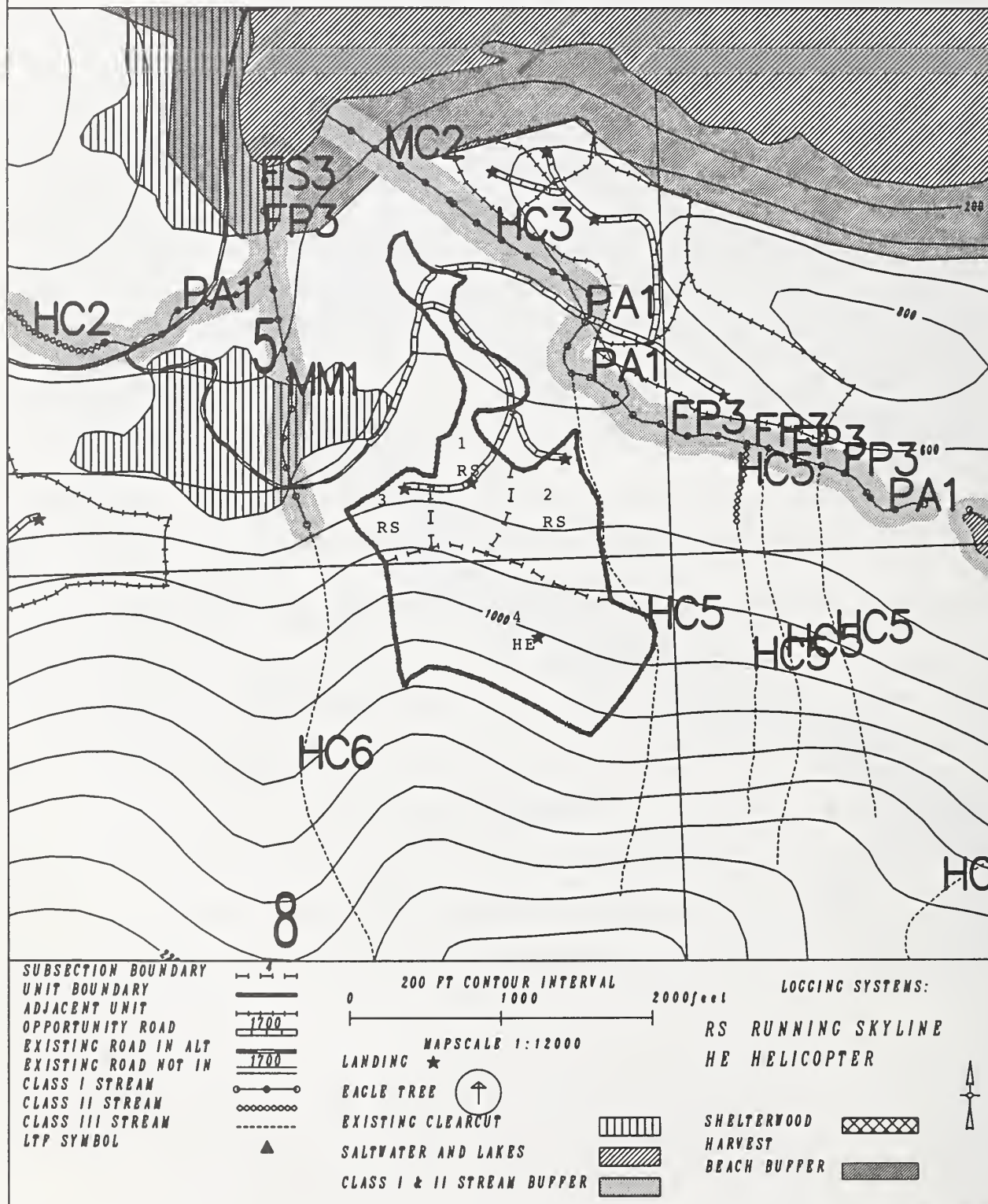
There are no geological mitigation measures anticipated for this unit.

VCU: 7330 UNIT NUMBER: 3012

PLANNED HARVEST UNIT MAP

ACRES: 64 VOLUME: 1898 MBP QUAD(s): KTND5 QUARTER QUAD(s): SEN
 PHOTO NUM.: 1279-114 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



June 29, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>3013</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u>	VQO <u>M</u>
Planned acres <u>27</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>847</u>		Mgmt Area <u>K32</u> VCU <u>7330</u>	Plant Series <u>WHM</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-194</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 27 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 18 acres 800-1200 ft. 9 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 1 acres Medium 24 acres High 2 acres Very High 0 acres
Cedar 0 Hemlock 27 Mixed 0 Percent Seen 26 Percent Unseen 74 Aspect North

SOILS

This unit has 3 acres that may require partial or full suspension (BMP 13.9)

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Oversteepened slopes may require full bench construction on 0.59 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the SHRIMP BAY viewshed, approximately a minimum 1/4 mile from shoreline.

There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

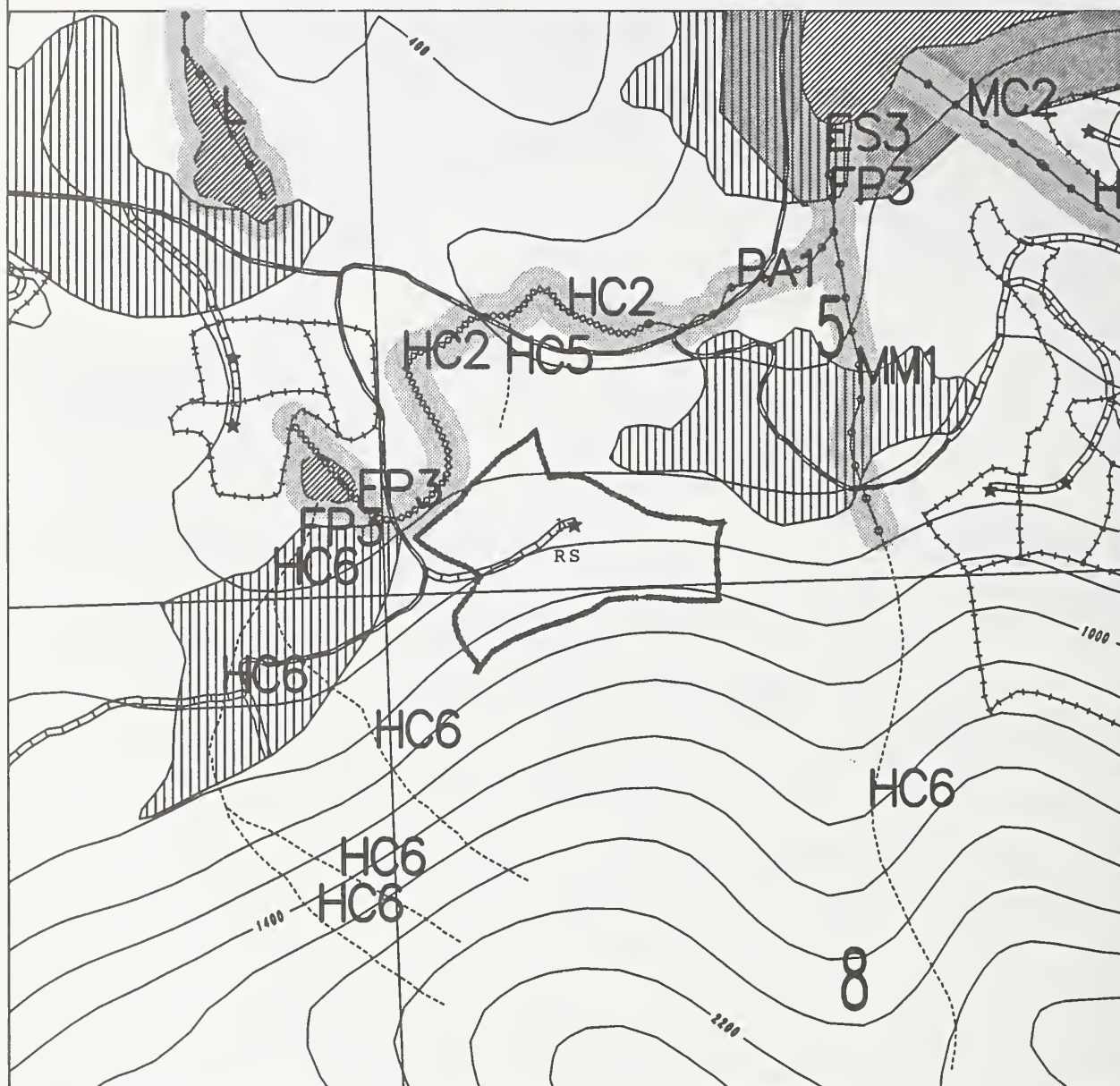
There are no geological mitigation measures anticipated for this unit.

VCU: 7330 UNIT NUMBER: 3013

PLANNED HARVEST UNIT MAP

ACRES: 27 VOLUME: 847 MBP QUAD(s): KTND5 QUARTER QUAD(s): SEN/SWN
 PHOTO NUM.: 1179-194 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUPPER



LOGGING SYSTEMS:

RS RUNNING SKYLINE

SHELTERWOOD
 HARVEST
 BEACH BUPPER



June 29, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>3014</u>	No. Settings <u>3</u>	Alternatives considered <u>2</u> <u>3</u> <u>6</u>	VQO <u>MM</u>
Planned acres <u>18</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>482</u>		Mgmt Area <u>K32</u> VCU <u>7330</u>	Plant Series <u>CMM</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-194</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 16 acres VC5 0 acres VC6 2 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 18 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 7 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 16 Mixed 2 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 12 acres that may require partial or full suspension (BMP 13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 6 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

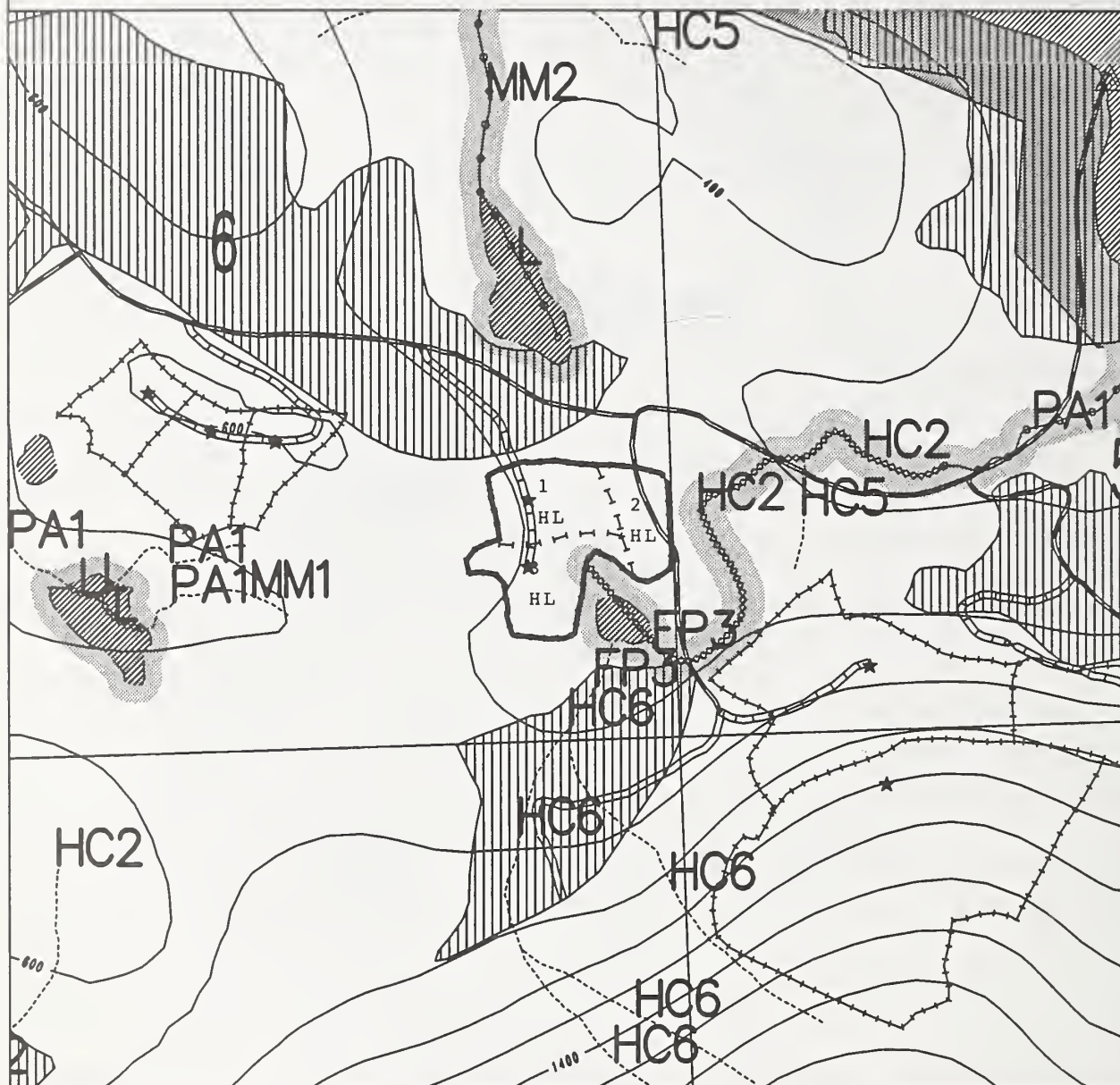
There are no geological mitigation measures anticipated for this unit.

VCU: 7330UNIT NUMBER: 3014

PLANNED HARVEST UNIT MAP

ACRES: 18 VOLUME: 482 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWN
 PHOTO NUM.: 1179-194 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGH LEAD



SHELTERWOOD



HARVEST



BEACH BUFFER



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>3015</u>	No. Settings <u>4</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>27</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1042</u>		Mgmt Area <u>K32</u> VCU <u>7330</u>	Plant Series <u>WHM</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-194</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 7 acres VC6 20 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 27 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 4 acres Medium 24 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 7 Mixed 20 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 4 acres that may require partial or full suspension (BMP 13.9)

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Oversteepened slopes may require full bench construction on 0.59 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

All trees less than 12 inches DBH within 35 feet of Class III streams, will remain standing in these units.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

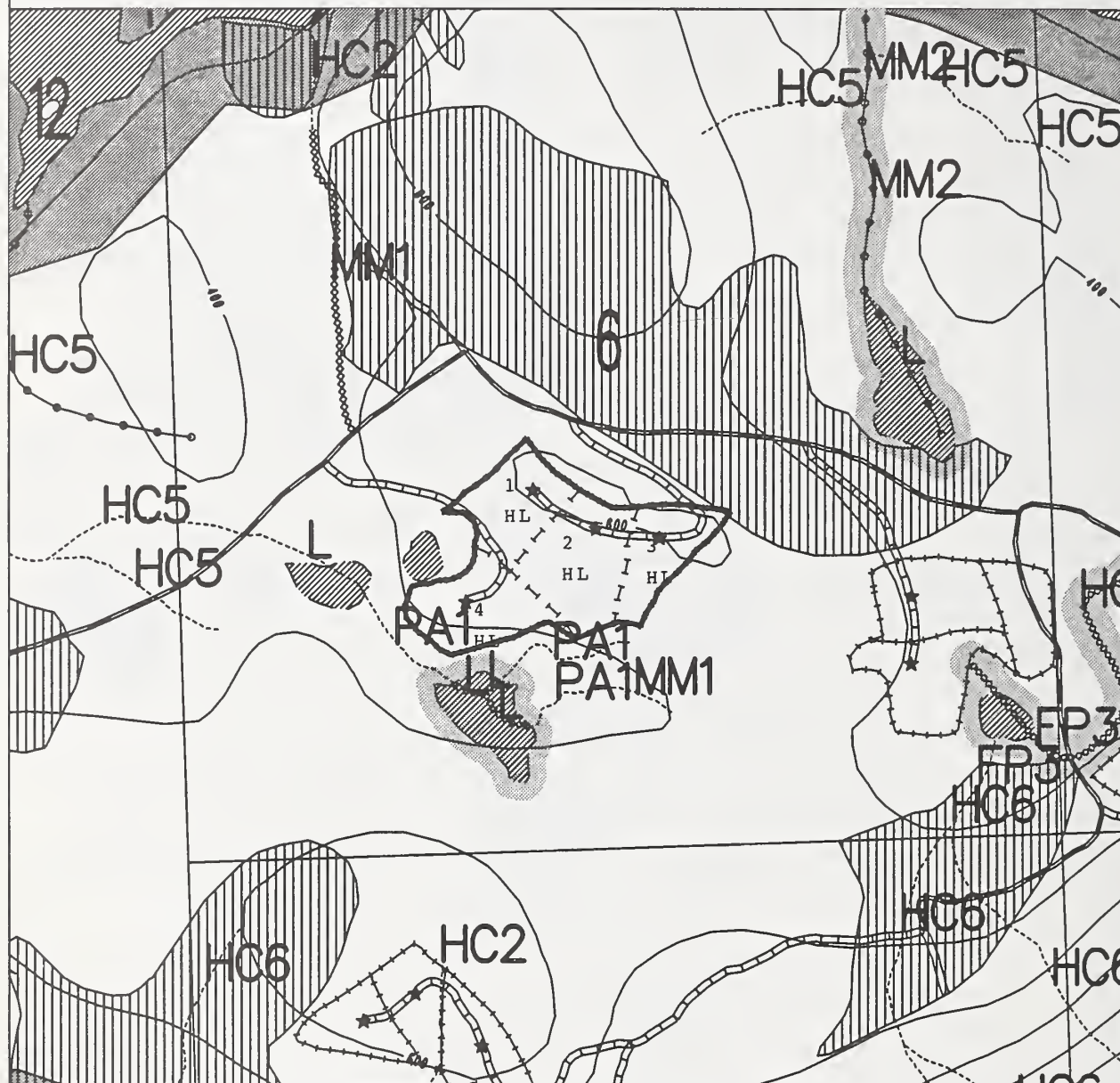
VCU: 7330

UNIT NUMBER: 3015

PLANNED HARVEST UNIT MAP

ACRES: 27 VOLUME: 1042 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWN
 PHOTO NUM.: 1179-194 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (upward arrow symbol)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGH LEAD

SHELTERWOOD
 HARVEST
 BEACH BUFFER



June 29, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>3016</u>	No. Settings <u>3</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>MM</u>
Planned acres <u>20</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>822</u>		Mgmt Area <u>K32</u> VCU <u>7330</u>	Plant Series <u>WHM</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-194</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 0 acres VC6 20 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 20 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 1 acres Medium 19 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 0 Mixed 20 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 2 acres that may require partial or full suspension (BMP 13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

All trees less than 12 inches DBH within 35 feet of Class III streams, will remain standing in these units.
There are 4 streams which have fish passage requirements, of these passes 2 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Harvest operations restricted to April 1 to October 31 to protect trumpeter swans on Margaret, Orchard, Lakes, Klu Bay and the head of Traitors Cove.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

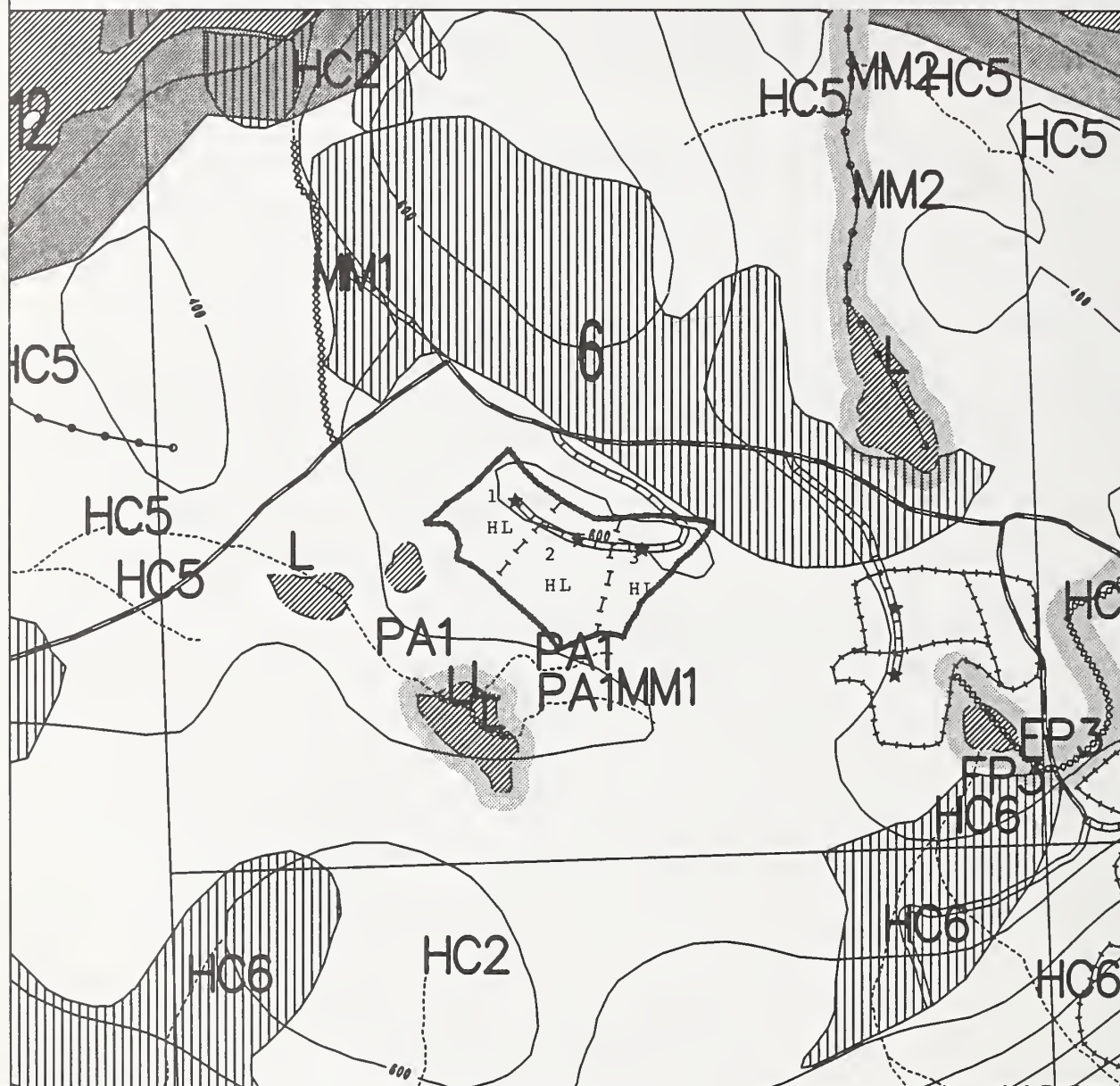
There are no geological mitigation measures anticipated for this unit.

VCU: 7330UNIT NUMBER: 3016

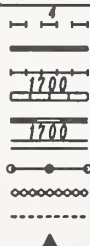
PLANNED HARVEST UNIT MAP

ACRES: 20 VOLUME: 822 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWN
 PHOTO NUM.: 1179-194 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGH LEAD

SHELTERWOOD

HARVEST

BEACH BUFFER



June 29, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>3017</u>	No. Settings <u>2</u>	Alternatives considered <u>3</u>	VQO <u>MM</u>
Planned acres <u>38</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1192</u>		Mgmt Area <u>K32</u> VCU <u>7330</u>	Plant Series <u>WHM</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-194</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 38 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 26 acres 800-1200 ft. 12 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 1 acres Medium 24 acres High 13 acres Very High 0 acres
Cedar 0 Hemlock 38 Mixed 0 Percent Seen 26 Percent Unseen 74 Aspect North

SOILS

This unit has 13 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 9 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 2 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the _____ viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

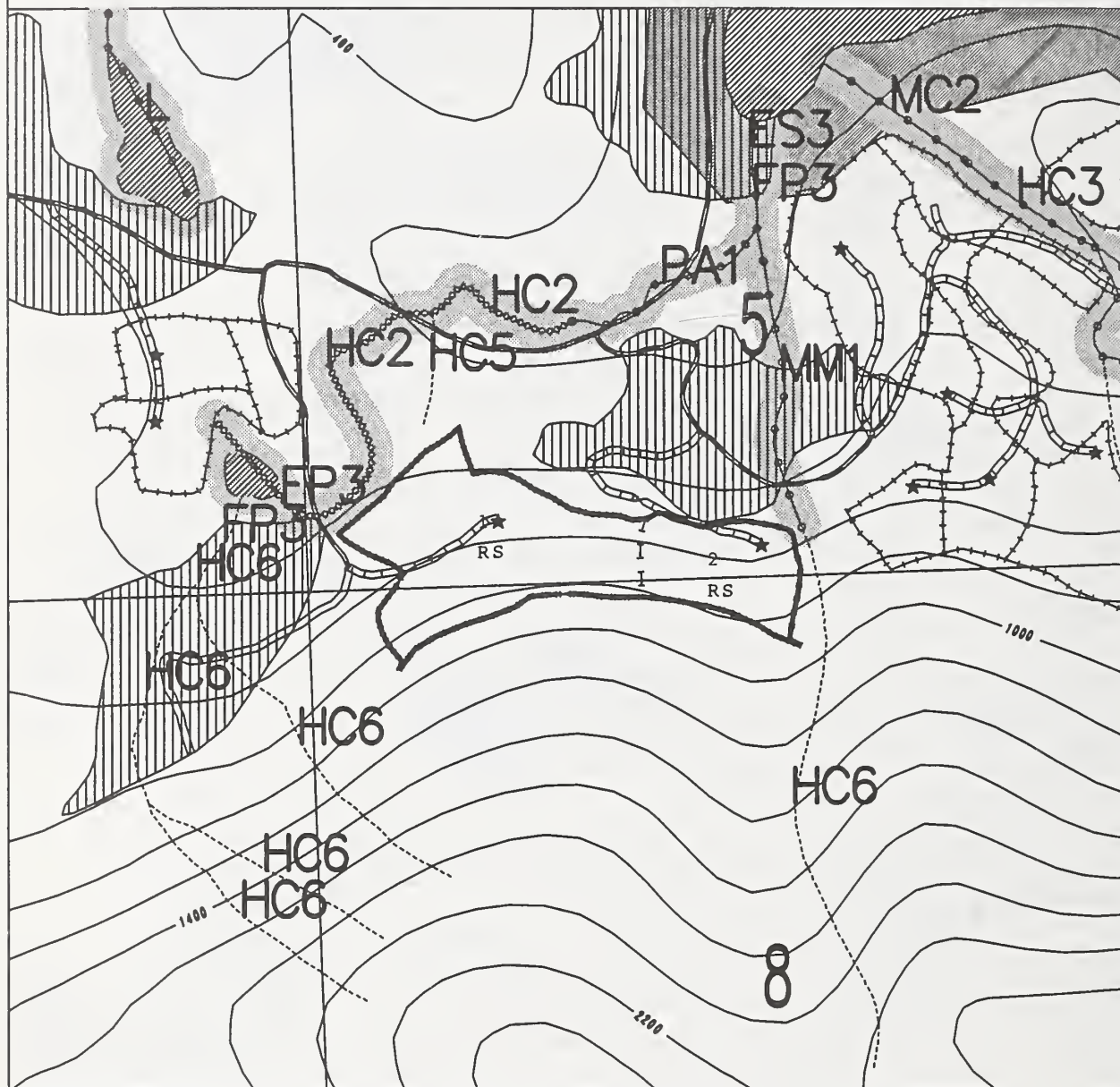
There are no geological mitigation measures anticipated for this unit.

VCU: 7330UNIT NUMBER: 3017

PLANNED HARVEST UNIT MAP

ACRES: 38 VOLUME: 1192 MBP QUAD(s): KTND5 QUARTER QUAD(s): SEN/SWN
 PHOTO NUM.: 1179-194 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



June 29, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>3019</u>	No. Settings <u>2</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>MM</u>
Planned acres <u>37</u>		Quad <u>KTND5SEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1097</u>		Mgmt Area <u>K32</u> VCU <u>7330</u>	Plant Series <u>WHC</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-39</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 10 acres VC5 27 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 37 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 15 acres Medium 19 acres High 3 acres Very High 0 acres
Cedar 0 Hemlock 37 Mixed 0 Percent Seen 5 Percent Unseen 95 Aspect South

SOILS

This unit has 19 acres that may require partial or full suspension (BMP 13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 12 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6)

WILDLIFE

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the _____ viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>3020</u>	No. Settings <u>3</u>	Alternatives considered <u>3 4 6</u>	VQO <u>MM</u>
Planned acres <u>66</u>		Quad <u>KTND5SEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1961</u>		Mgmt Area <u>K32</u> VCU <u>7330</u>	Plant Series <u>WHS</u>
Logging methods <u>SL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-42</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 17 acres VC5 49 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 47 acres 800-1200 ft. 19 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 64 acres Very High 1 acres
Cedar 0 Hemlock 65 Mixed 0 Percent Seen 97 Percent Unseen 3 Aspect West

SOILS

This unit has 65 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 64 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the _____ viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

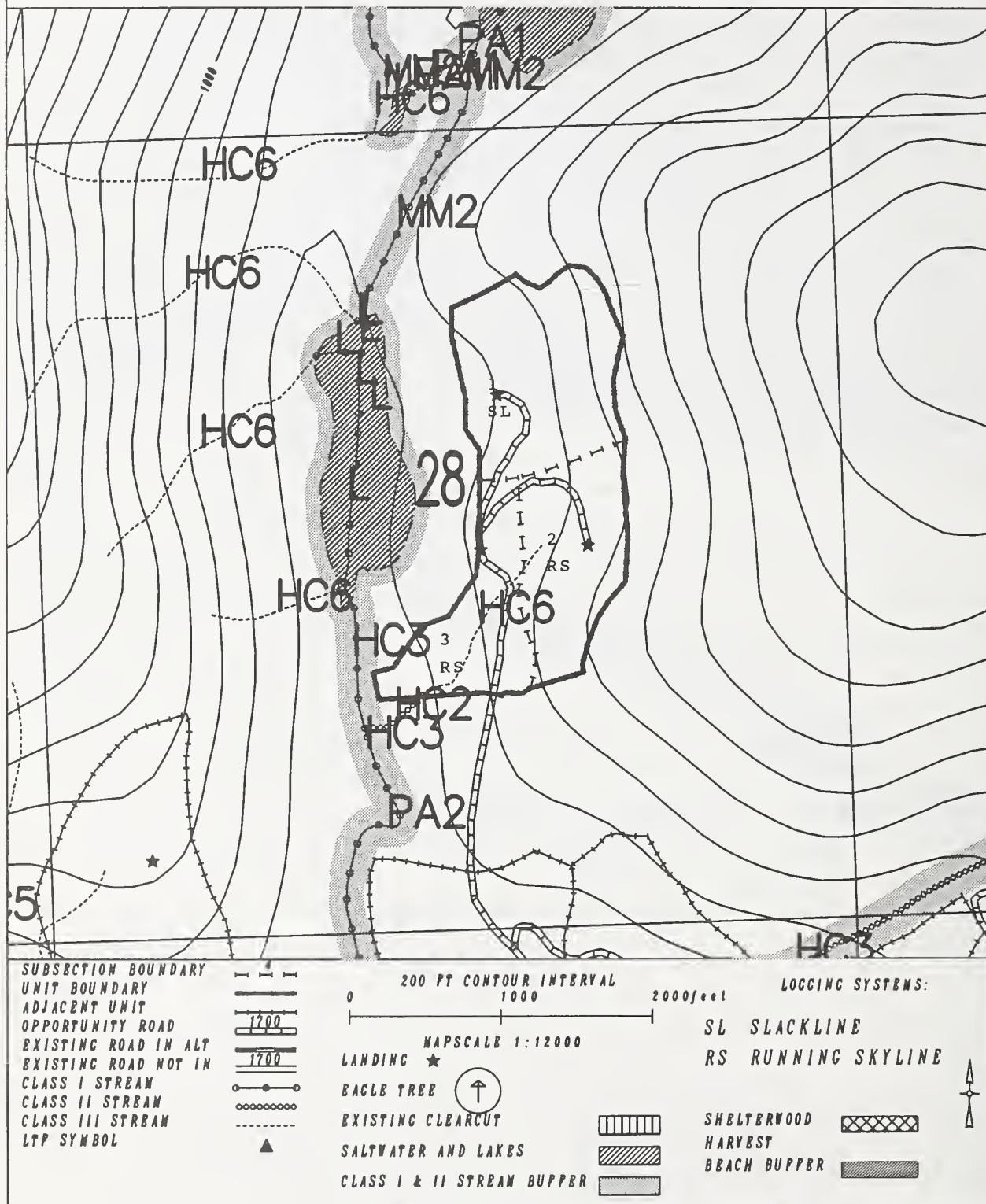
There are no geological mitigation measures anticipated for this unit.

VCU: 7330 UNIT NUMBER: 3020

PLANNED HARVEST UNIT MAP

ACRES: 66 VOLUME: 1961 MBP QUAD(s): KTND5 QUARTER QUAD(s): SEN
 PHOTO NUM.: 1279-43 LANDNET INFO TOWNSHIP 69S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



June 29, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>3021</u>	No. Settings <u>3</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>PR</u>
Planned acres <u>66</u>		Quad <u>KTND5SEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2139</u>		Mgmt Area <u>K32</u> VCU <u>7330</u>	Plant Series <u>WHS</u>
Logging methods <u>HL SL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-42</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 59 acres VC6 7 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 66 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 65 acres Very High 0 acres
Cedar 0 Hemlock 65 Mixed 0 Percent Seen 62 Percent Unseen 38 Aspect South

SOILS

This unit has 23 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

All trees less than 12 inches DBH within 35 feet of Class III streams, will remain standing in these units.
There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

Maintain adequate distribution of snags by leaving 0.1 acre-sized patches of green trees within the unit for every 10 acres harvested. Snag patches must be compatible with logging system and safe working conditions.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the KLU BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

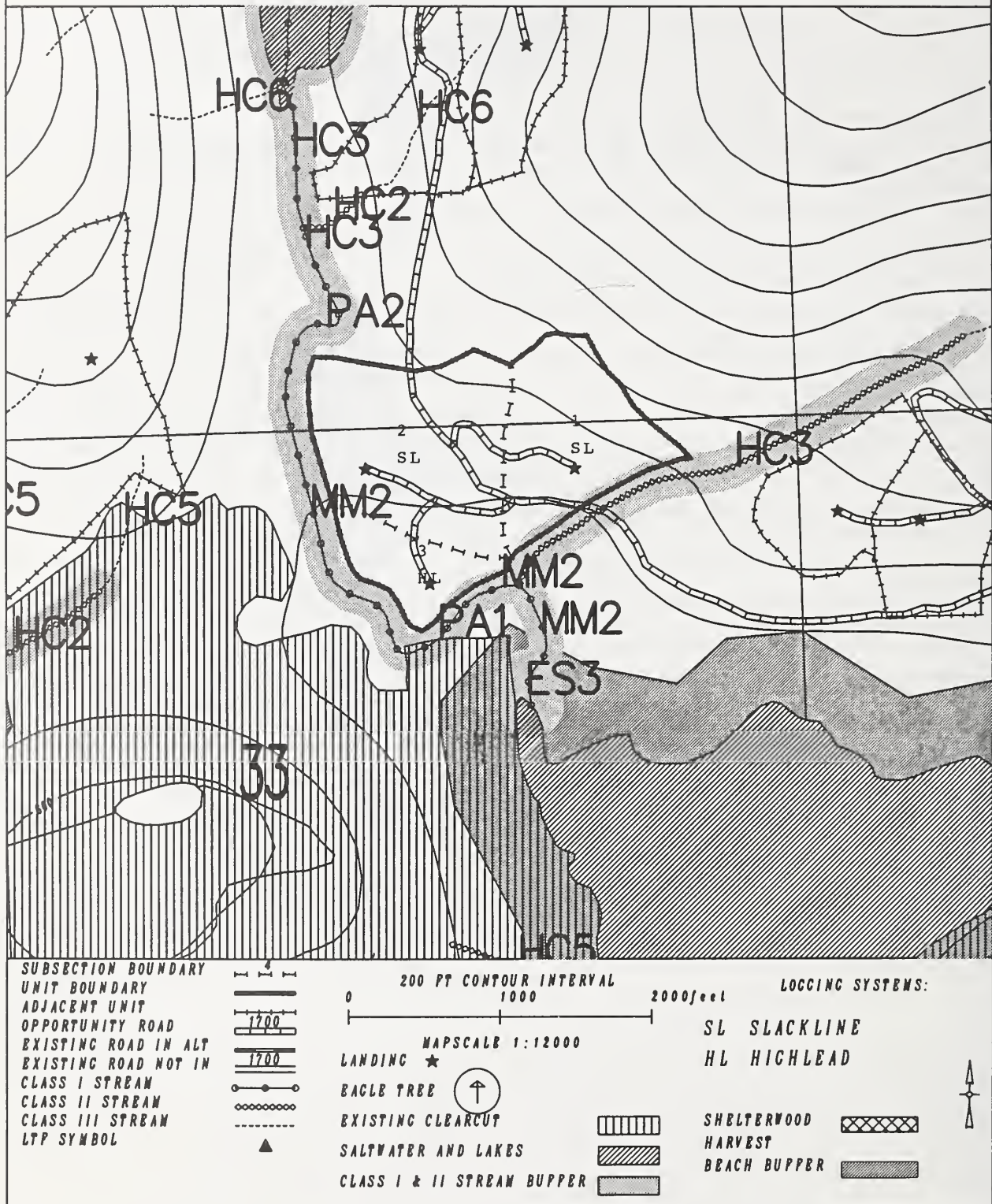
There are no geological mitigation measures anticipated for this unit.

VCU: 7330UNIT NUMBER: 3021

PLANNED HARVEST UNIT MAP

ACRES: 66 VOLUME: 2139 MBP QUAD(s): KTND5 QUARTER QUAD(s): SEN
 PHOTO NUM.: 1279-42 LANDNET INFO TOWNSHIP 69S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



June 29, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>3022</u>	No. Settings <u>2</u>	Alternatives considered <u>3</u>	VQO <u>M</u>
Planned acres <u>76</u>		Quad <u>KTND5SEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2096</u>		Mgmt Area <u>K32</u> VCU <u>7330</u>	Plant Series <u>WHC</u>
Logging methods <u>SL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-92</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 45 acres VC5 31 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 1 acres 800-1200 ft. 44 acres 1200-1500 ft. 27 acres over 1500 ft. 4 acres
Mass movement index: Low 9 acres Medium 67 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 75 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect South

SOILS

This unit has 75 acres that may require partial or full suspension (BMP 13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 66 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

This unit contains 8 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

All trees less than 12 inches DBH within 35 feet of Class III streams, will remain standing in these units.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the KLU BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

ACRES: 76 VOLUME: 2096 MBP QUAD(s): KTND5 QUARTER QUAD(s): SEN
PHOTO NUM.: 1279-92 LANDNET INFO TOWNSHIP 69S RANGE 91E

SHELTERWOOD
HARVEST
BEACH BUPPE



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>3023</u>	No. Settings <u>1</u>	Alternatives considered <u>4 6</u>	VQO <u>PR</u>
Planned acres <u>50</u>		Quad <u>KTND5SEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1568</u>		Mgmt Area <u>K32</u> VCU <u>7330</u>	Plant Series <u>WHS</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-5</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 50 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 37 acres 800-1200 ft. 13 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 50 acres Very High 0 acres
Cedar 0 Hemlock 50 Mixed 0 Percent Seen 90 Percent Unseen 10 Aspect South

SOILS

This unit has 50 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verifaction required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 17 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the KLU BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

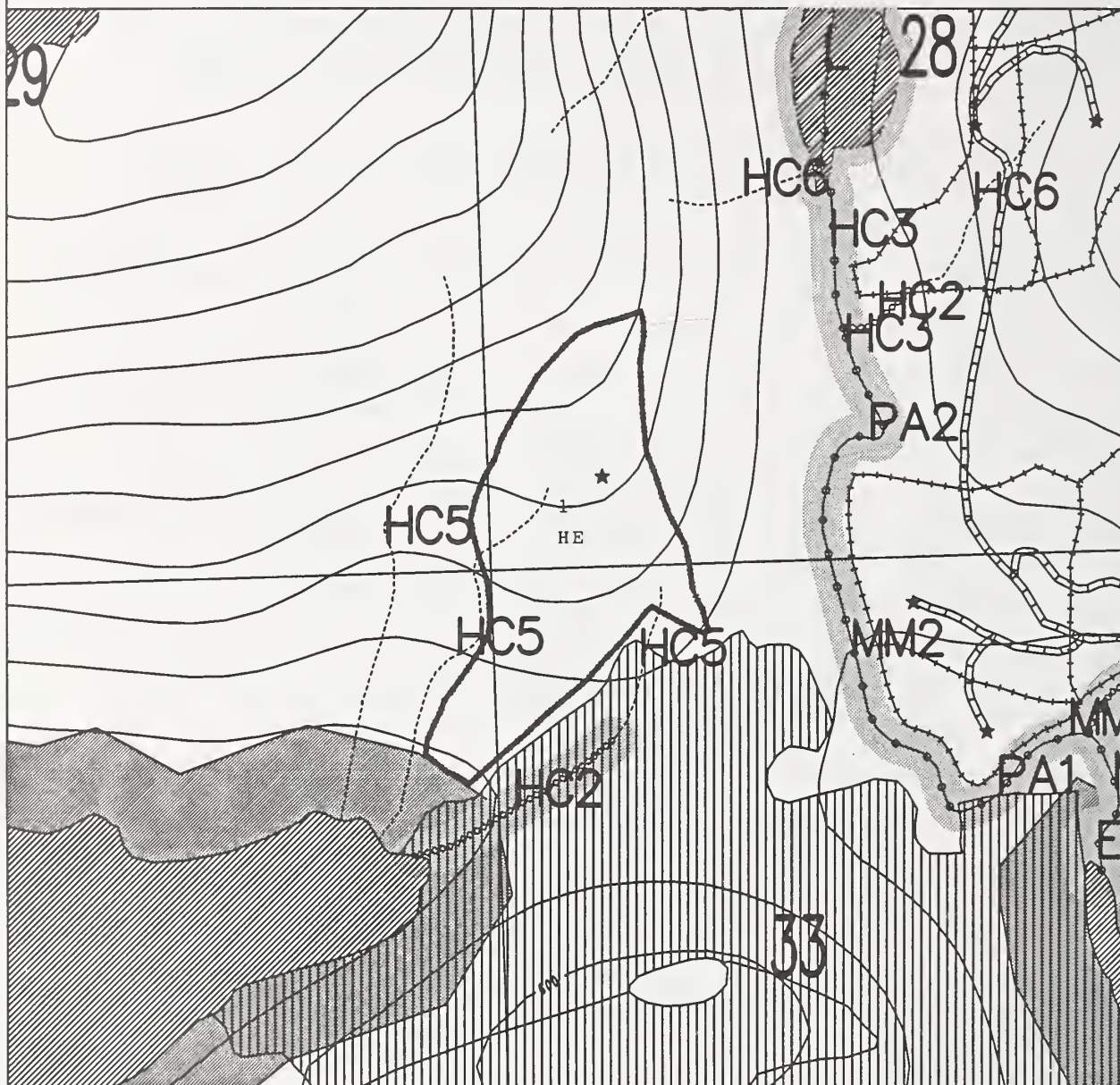
There are no geological mitigation measures anticipated for this unit.

VCU: 7330 UNIT NUMBER: 3023

PLANNED HARVEST UNIT MAP

ACRES: 50 VOLUME: 1568 MBP QUAD(s): KTND5 QUARTER QUAD(s): SEN
 PHOTO NUM.: 1279-5 LANDNET INFO TOWNSHIP 69S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HE HELICOPTER

SHELTERWOOD

HARVEST

BEACH BUFFER



June 29, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>3024</u>	No. Settings <u>3</u>	Alternatives considered <u>4 6</u>	VQO <u>MM</u>
Planned acres <u>73</u>		Quad <u>KTND5SEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1924</u>		Mgmt Area <u>K32</u> VCU <u>7330</u>	Plant Series <u>CMM</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-92</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 57 acres VC5 16 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 8 acres 800-1200 ft. 48 acres 1200-1500 ft. 17 acres over 1500 ft. 0 acres
Mass movement index: Low 15 acres Medium 28 acres High 30 acres Very High 0 acres
Cedar 0 Hemlock 73 Mixed 0 Percent Seen 22 Percent Unseen 78 Aspect West

SOILS

This unit has 24 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 7 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are 8 streams which have fish passage requirements, of these passes 2 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

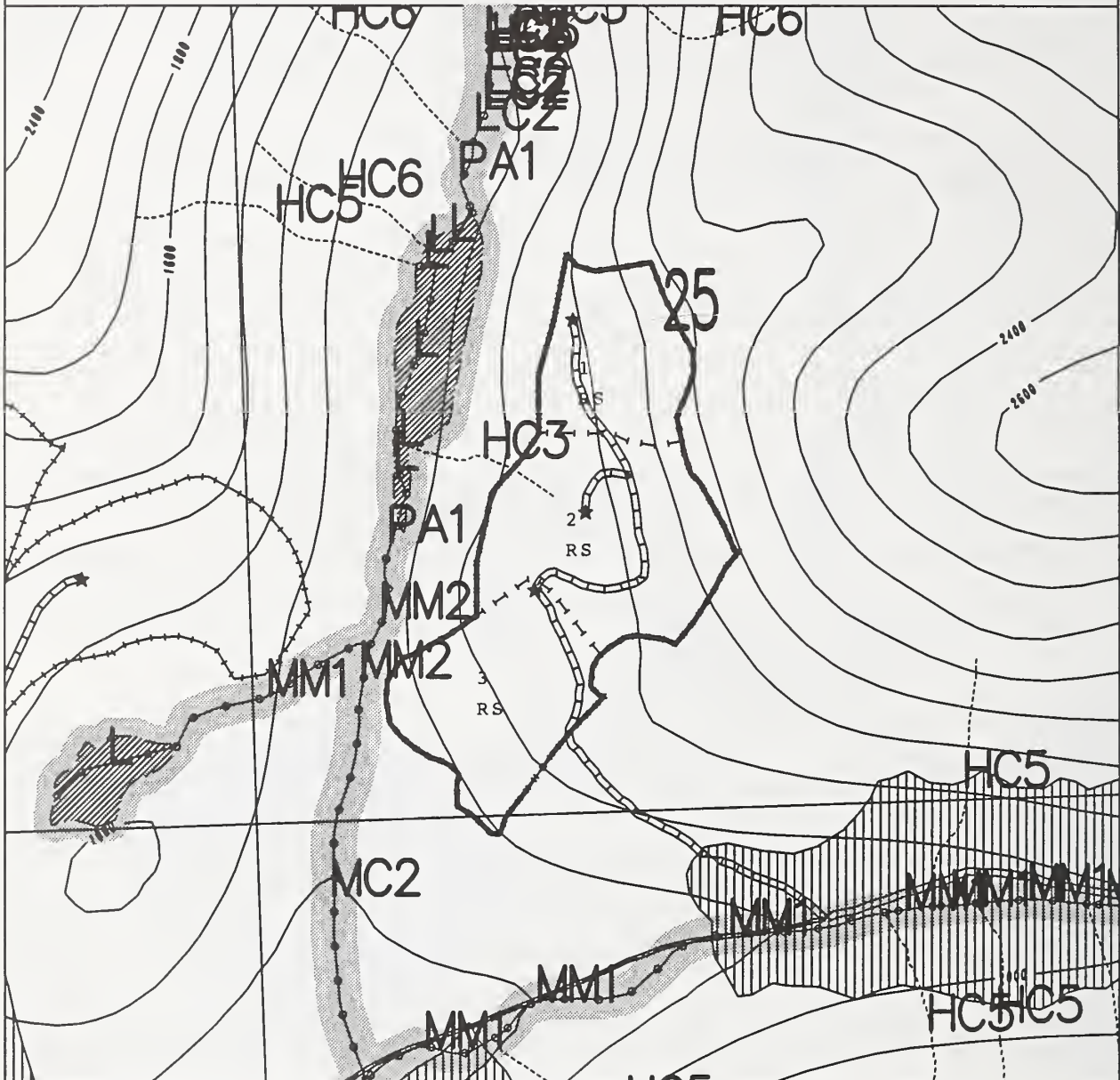
There are no geological mitigation measures anticipated for this unit.

VCU: 7330 UNIT NUMBER: 3024

PLANNED HARVEST UNIT MAP

ACRES: 73 VOLUME: 1924 MBP QUAD(s): KTND5 QUARTER QUAD(s): SEN
 PHOTO NUM.: 1279-92 LANDNET INFO TOWNSHIP 69S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



0 200 FT CONTOUR INTERVAL 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (circle with cross)

EXISTING CLEARCUT (diagonal lines)

SALTWATER AND LAKES (wavy lines)

CLASS I & II STREAM BUFFER (dotted lines)

LOGGING SYSTEMS:

RS RUNNING SKYLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



June 29, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>3025</u>	No. Settings <u>6</u>	Alternatives considered <u>6</u>	VQO <u>M</u>
Planned acres <u>84</u>		Quad <u>KTND5SEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2442</u>		Mgmt Area <u>K32</u> VCU <u>7330</u>	Plant Series <u>NFS</u>
Logging methods <u>HL</u> <u>RS</u> <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-114</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 30 acres VC5 54 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 47 acres 800-1200 ft. 25 acres 1200-1500 ft. 12 acres over 1500 ft. 0 acres
Mass movement index: Low 4 acres Medium 53 acres High 27 acres Very High 0 acres
Cedar 0 Hemlock 80 Mixed 3 Percent Seen 56 Percent Unseen 24 Aspect North

SOILS

This unit has 31 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 9 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the SHRIMP BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

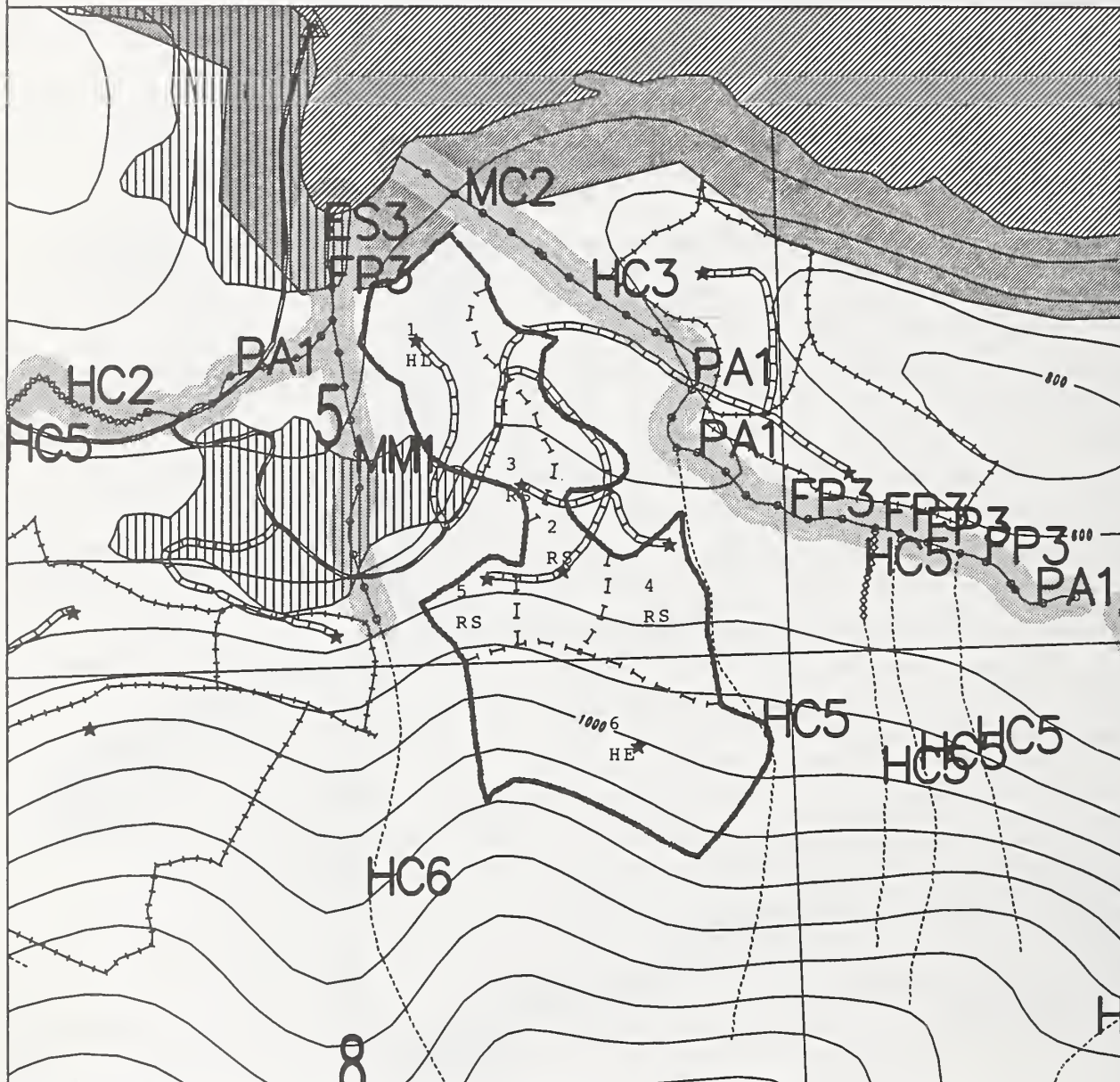
There are no geological mitigation measures anticipated for this unit.

VCU: 7330UNIT NUMBER: 3025

PLANNED HARVEST UNIT MAP

ACRES: 84 VOLUME: 2442 MBP QUAD(s): KTND5 QUARTER QUAD(s): SEN
 PHOTO NUM.: 1279-114 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



0 200 FT CONTOUR INTERVAL 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (upward arrow symbol)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGHLEAD

RS RUNNING SKYLINE

HE HELICOPTER

SHELTERWOOD

HARVEST

BEACH BUFFER



June 29, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>3026</u>	No. Settings <u>3</u>	Alternatives considered <u>6</u>	VQO <u>M</u>
Planned acres <u>91</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2886</u>		Mgmt Area <u>K32</u> VCU <u>7330</u>	Plant Series <u>WHM</u>
Logging methods <u>RS</u> <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-194</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 7 acres VC5 76 acres VC6 8 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 26 acres 800-1200 ft. 28 acres 1200-1500 ft. 21 acres over 1500 ft. 16 acres
Mass movement index: Low 1 acres Medium 28 acres High 62 acres Very High 0 acres
Cedar 0 Hemlock 82 Mixed 8 Percent Seen 69 Percent Unseen 31 Aspect North

SOILS

This unit has 64 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 20 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 2 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the SHRIMP BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

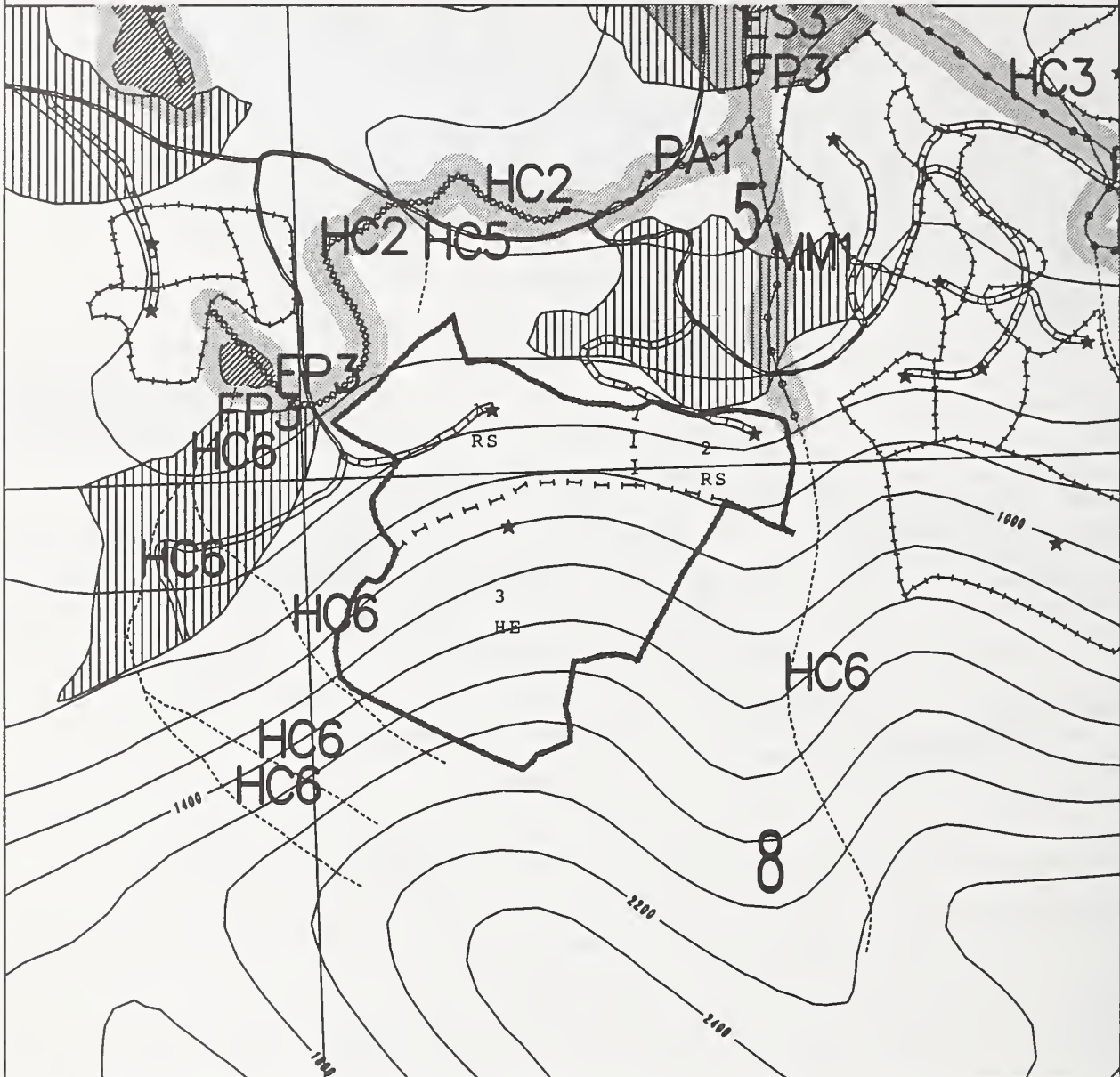
There are no geological mitigation measures anticipated for this unit.

VCU: 7330UNIT NUMBER: 3026

PLANNED HARVEST UNIT MAP

ACRES: 91 VOLUME: 2886 MBP QUAD(s): KTND5 QUARTER QUAD(s): SEN/SWN
 PHOTO NUM.: 1179-194 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



0 200 FT CONTOUR INTERVAL 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

RS RUNNING SKYLINE
 HE HELICOPTER

SHELTERWOOD
 HARVEST
 BEACH BUFFER

June 29, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>3027</u>	No. Settings <u>5</u>	Alternatives considered <u>5</u>	VQO <u>M</u>
Planned acres <u>102</u>		Quad <u>KTND5SEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>3058</u>		Mgmt Area <u>K32</u> VCU <u>7330</u>	Plant Series <u>WHS</u>
Logging methods <u>SL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-42</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 22 acres VC5 80 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 83 acres 800-1200 ft. 19 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 101 acres Very High 1 acres
Cedar 0 Hemlock 101 Mixed 0 Percent Seen 22 Percent Unseen 78 Aspect West

SOILS

This unit has 101 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 83 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

Maintain diversity within unit by leaving 1-5 acre-sized islands of green trees at a rate of 1 acre of island for every 20 acre harvested. Leave islands must be compatible with logging system and safe working conditions.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the KLU BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

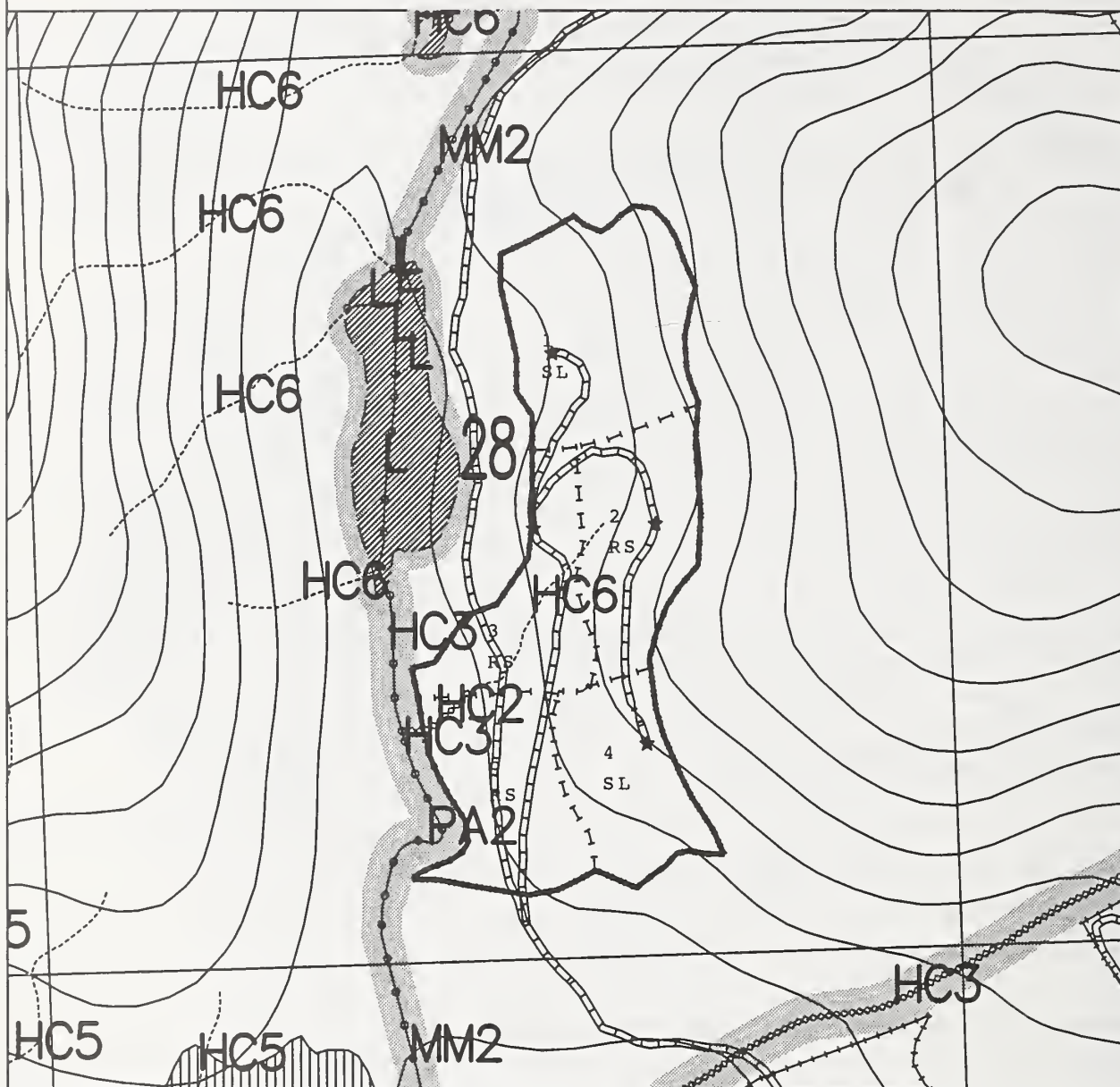
There are no geological mitigation measures anticipated for this unit.

VCU: 7330 UNIT NUMBER: 3027

PLANNED HARVEST UNIT MAP

ACRES: 102 VOLUME: 3058 MBP QUAD(s): KTND5 QUARTER QUAD(s): SEN
 PHOTO NUM.: 1279-43 LANDNET INFO TOWNSHIP 69S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

SL SLACKLINE
 RS RUNNING SKYLINE

SHELTERWOOD
 HARVEST
 BEACH BUFFER



June 29, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>3028</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>PR</u>
Planned acres <u>21</u>		Quad <u>KIND5SEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>545</u>		Mgmt Area <u>K32</u> VCU <u>7330</u>	Plant Series <u>WHS</u>
Logging methods <u>SL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-42</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 18 acres VC5 3 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 21 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 21 acres Very High 0 acres
Cedar 0 Hemlock 21 Mixed 0 Percent Seen 67 Percent Unseen 33 Aspect South

SOILS

This unit has 21 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 21 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the KLU BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

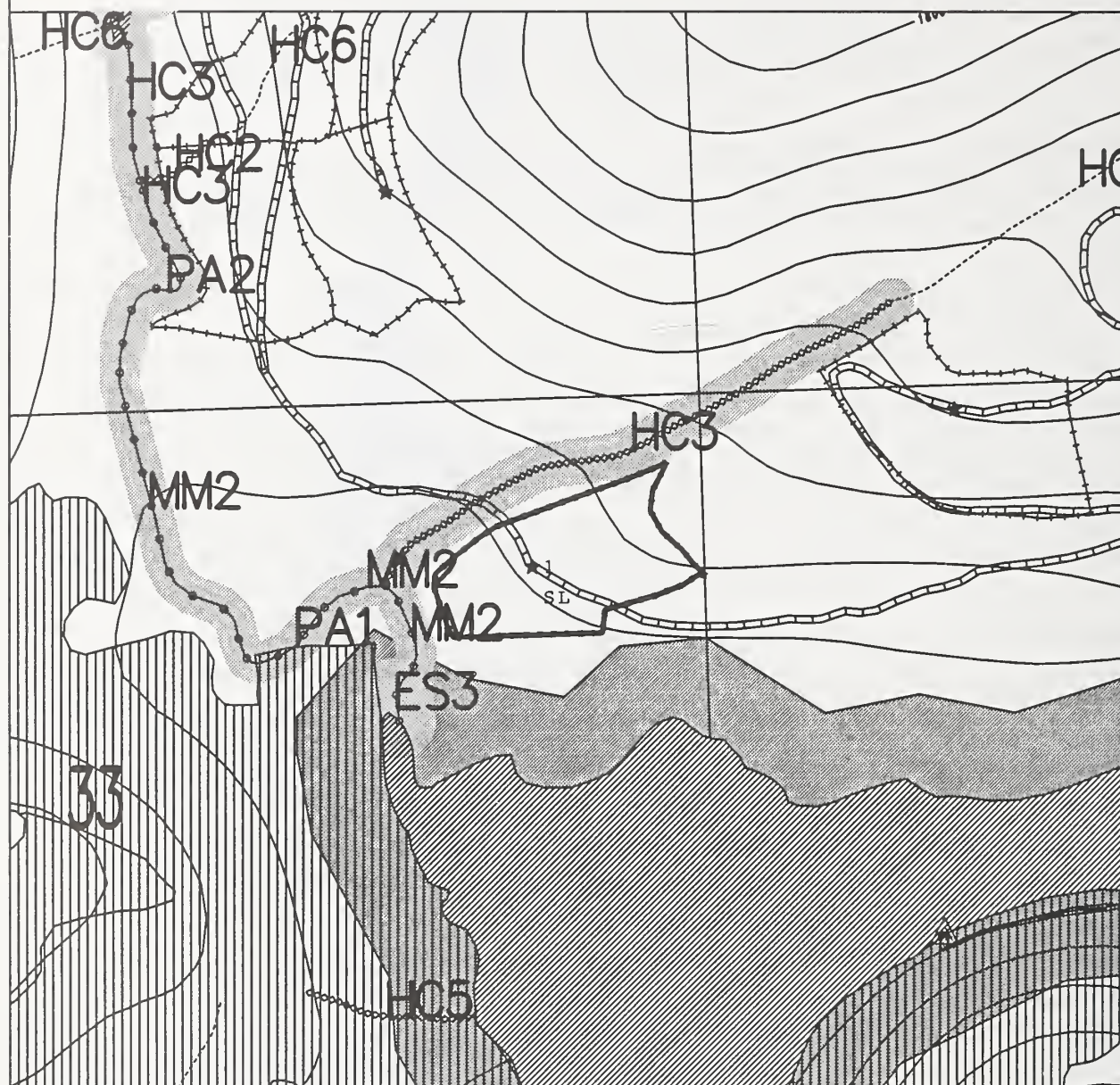
There are no geological mitigation measures anticipated for this unit.

VCU: 7330 UNIT NUMBER: 3028

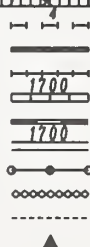
PLANNED HARVEST UNIT MAP

ACRES: 21 VOLUME: 545 MBF QUAD(s): KTND5 QUARTER QUAD(s): SEN
 PHOTO NUM.: 1279-42 LANDNET INFO TOWNSHIP 69S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

SL SLACKLINE

SHELTERWOOD
 HARVEST
 BEACH BUFFER



June 29, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>3029</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>PR</u>
Planned acres <u>25</u>		Quad <u>KTND5SEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>625</u>		Mgmt Area <u>K32</u> VCU <u>7330</u>	Plant Series <u>WHS</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-42</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 25 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 23 acres 800-1200 ft. 2 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 25 acres Very High 0 acres
Cedar 0 Hemlock 24 Mixed 0 Percent Seen 48 Percent Unseen 52 Aspect South

SOILS

This unit has 25 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 24 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the KLU BAY viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

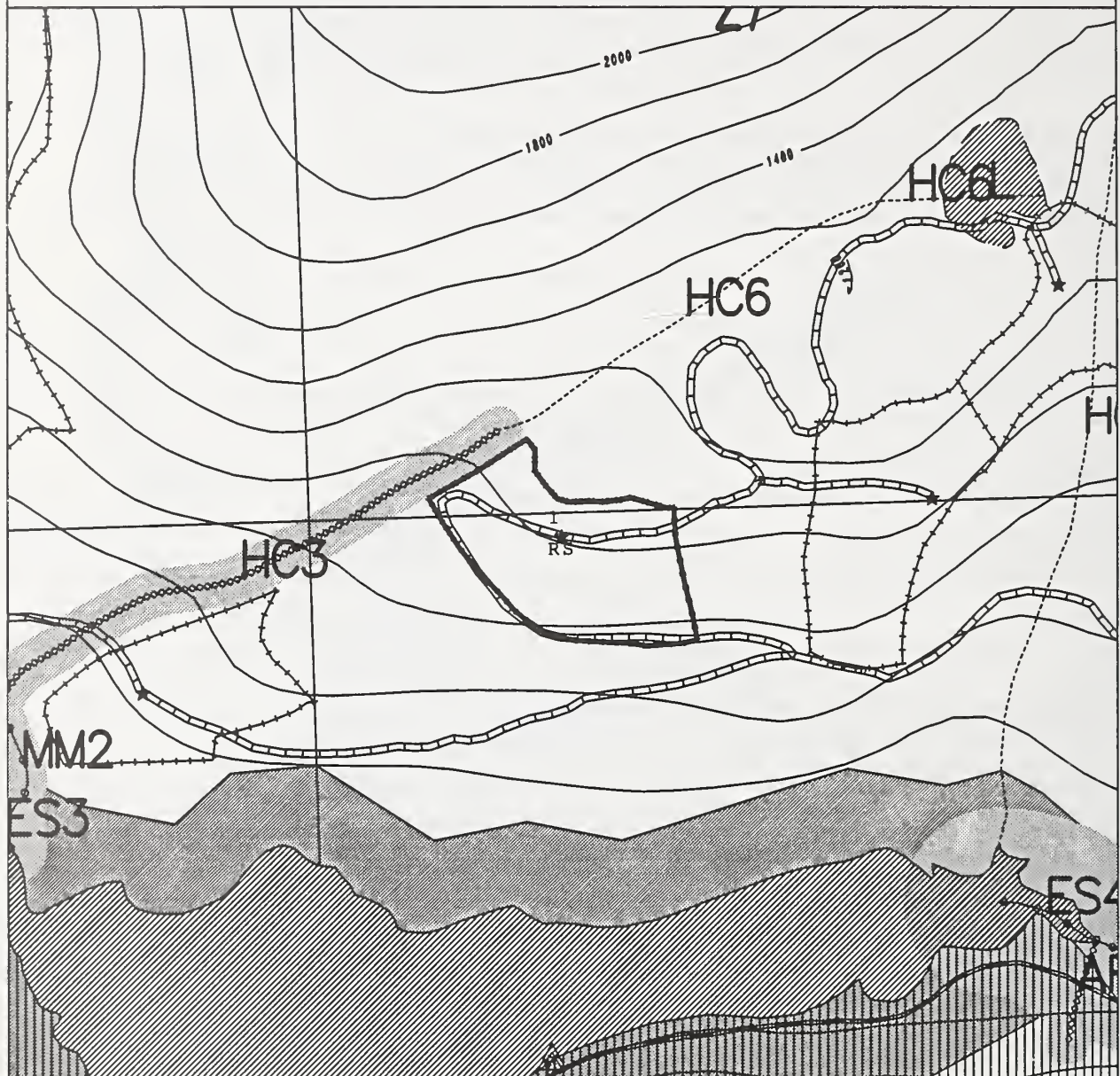
There are no geological mitigation measures anticipated for this unit.

VCU: 7330UNIT NUMBER: 3029

PLANNED HARVEST UNIT MAP

ACRES: 25 VOLUME: 625 MBF QUAD(s): KTND5 QUARTER QUAD(s): SEN
 PHOTO NUM.: 1279-42 LANDNET INFO TOWNSHIP 69S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE



SHELTERWOOD



HARVEST



BEACH BUFFER



BEACH BUFFER



June 29, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>3030</u>	No. Settings <u>2</u>	Alternatives considered <u>5</u>	VQO <u>PR</u>
Planned acres <u>45</u>		Quad <u>KTND5SEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1253</u>		Mgmt Area <u>K32</u> VCU <u>7330</u>	Plant Series <u>WHS</u>
Logging methods <u>SL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-50</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 25 acres VC5 20 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 16 acres 800-1200 ft. 29 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 1 acres Medium 0 acres High 44 acres Very High 0 acres
Cedar 0 Hemlock 45 Mixed 0 Percent Seen 94 Percent Unseen 6 Aspect East

SOILS

This unit has 45 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 44 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the KLU BAY viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

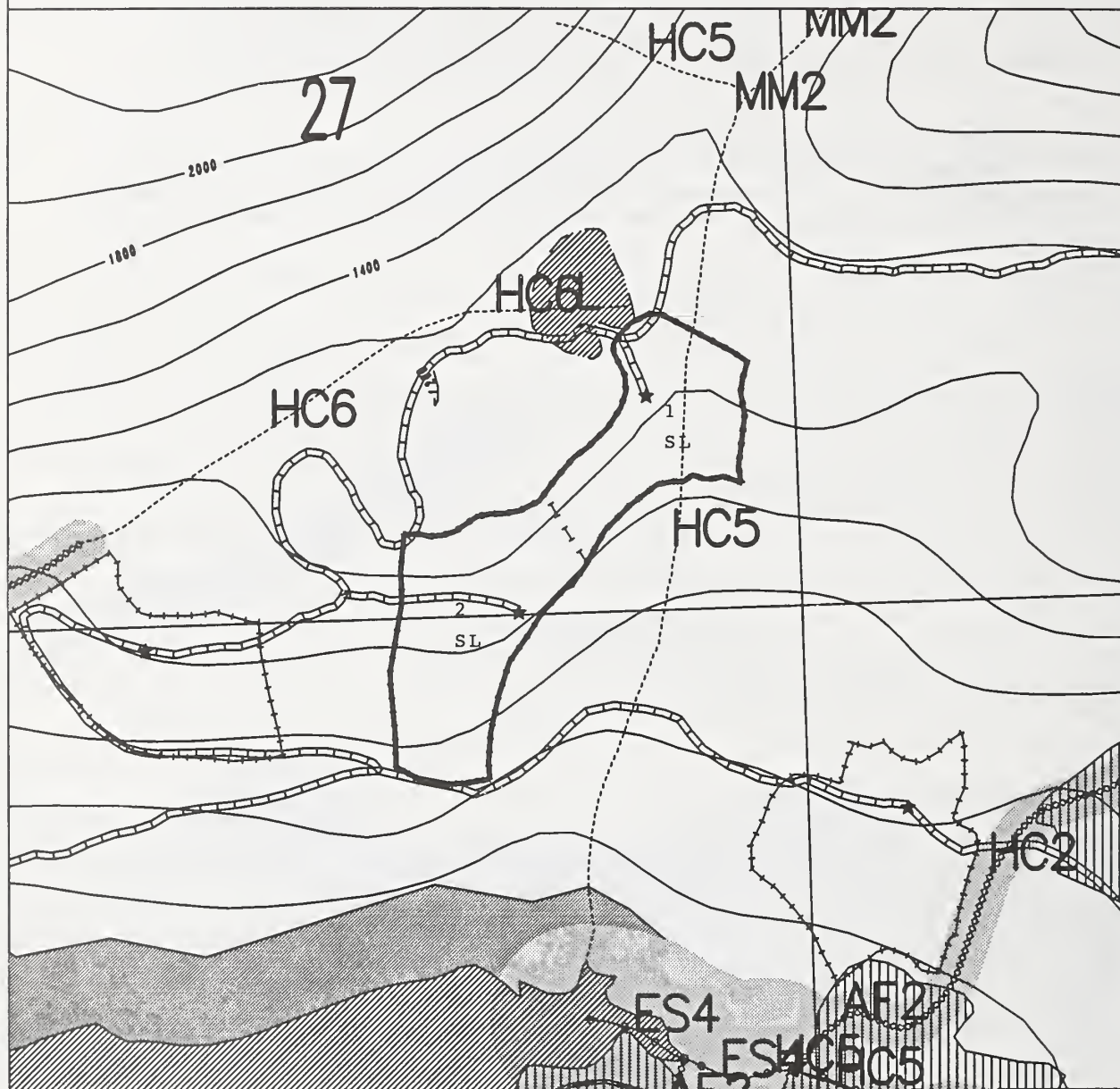
There are no geological mitigation measures anticipated for this unit.

VCU: 7330 UNIT NUMBER: 3030

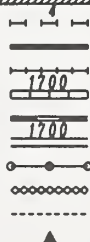
PLANNED HARVEST UNIT MAP

ACRES: 45 VOLUME: 1253 MBP QUAD(s): KTND5 QUARTER QUAD(s): SEN
 PHOTO NUM.: 1279-50 LANDNET INFO TOWNSHIP 69S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

SL SLACKLINE



SHELTERWOOD



HARVEST



BEACH BUFFER



June 29, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>3031</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>PR</u>
Planned acres <u>29</u>		Quad <u>KTND5SEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>795</u>		Mgmt Area <u>K32</u> VCU <u>7330</u>	Plant Series <u>WHS</u>
Logging methods <u>SL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-50</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 18 acres VC5 11 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 29 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 1 acres Medium 0 acres High 28 acres Very High 0 acres
Cedar 0 Hemlock 20 Mixed 9 Percent Seen 97 Percent Unseen 3 Aspect South

SOILS

This unit has 29 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 28 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Potentially very low volume per acre.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 8 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the KLU BAY viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

ACRES: 29 VOLUME: 795 MBP QUAD(s): KTND5 QUARTER QUAD(s): SEN
PHOTO NUM.: 1279-50 LANDNET INFO TOWNSHIP 69S RANGE 91E

[illegible]

SHELTERWOOD
HARVEST
BEACH BUPPER

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>3032</u>	No. Settings <u>2</u>	Alternatives considered <u>5</u>	VQO <u>PR</u>
Planned acres <u>32</u>		Quad <u>KTND5SEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>985</u>		Mgmt Area <u>K32</u> VCU <u>7330</u>	Plant Series <u>WHS</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-52</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 3 acres VC5 29 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 8 acres 1200-1500 ft. 24 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 23 acres Very High 9 acres
Cedar 0 Hemlock 32 Mixed 0 Percent Seen 97 Percent Unseen 3 Aspect North

SOILS

This unit has 32 acres that may require partial or full suspension (BMP 13.9)
This unit has very high mass movement index soils.
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 32 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the KLU BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

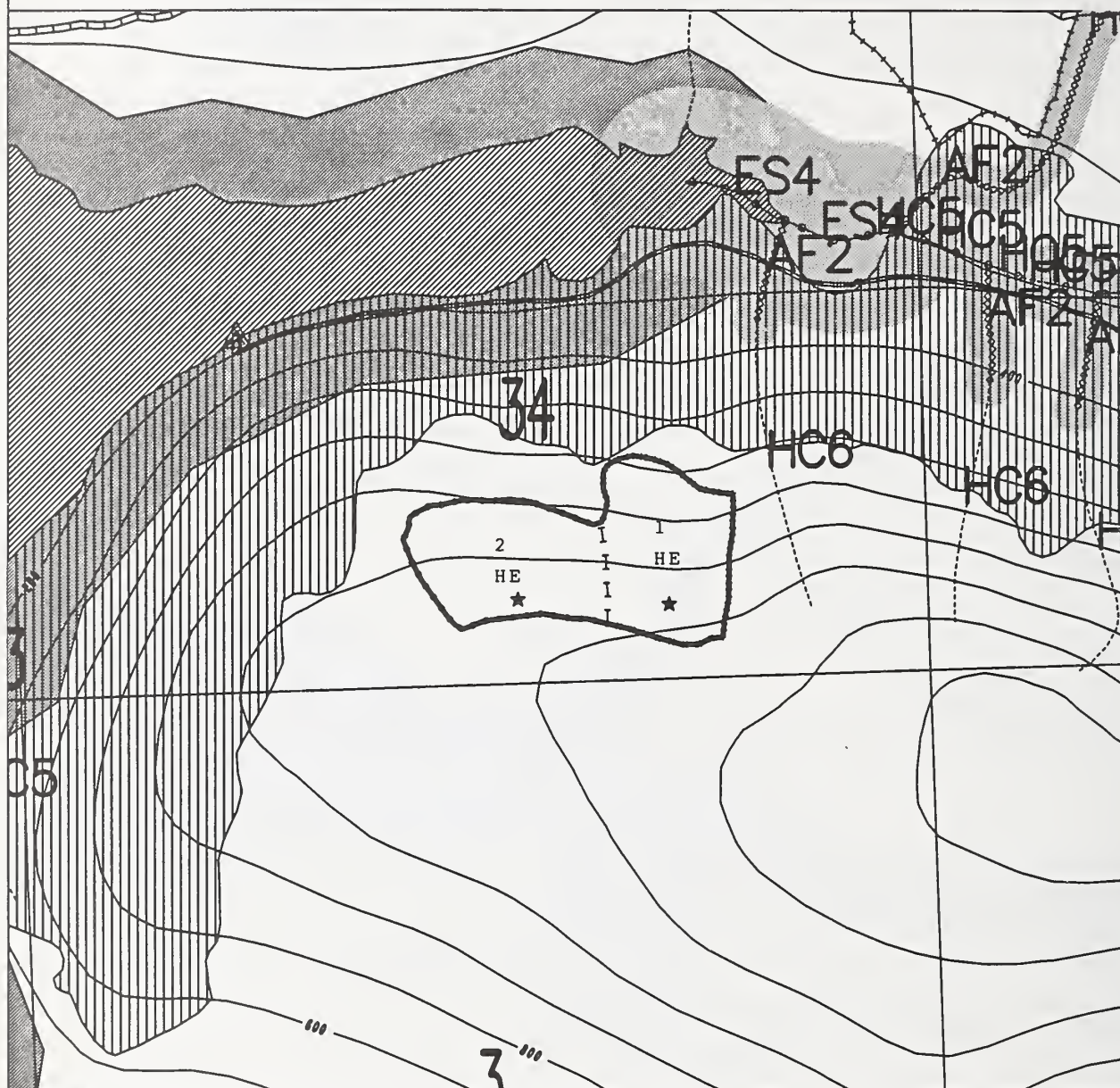
There are no geological mitigation measures anticipated for this unit.

VCU: 7330UNIT NUMBER: 3032

PLANNED HARVEST UNIT MAP

ACRES: 32 VOLUME: 985 MBP QUAD(s): KTND5 QUARTER QUAD(s): SEN
 PHOTO NUM.: 1279-52 LANDNET INFO TOWNSHIP 69S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

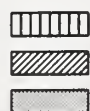
LANDING ★

BACLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HE HELICOPTER

SHELTERWOOD

HARVEST

BEACH BUFFER



June 29, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>3033</u>	No. Settings <u>7</u>	Alternatives considered <u>3</u> <u>5</u>	VQO <u>PR</u>
Planned acres <u>62</u>		Quad <u>KTND5SEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1760</u>		Mgmt Area <u>K32</u> VCU <u>7330</u>	Plant Series <u>NFS</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-114</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 29 acres VC5 33 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 55 acres 800-1200 ft. 7 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 4 acres Medium 48 acres High 10 acres Very High 0 acres
Cedar 0 Hemlock 58 Mixed 3 Percent Seen 34 Percent Unseen 66 Aspect North

SOILS

This unit has 14 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 7 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 2 streams which have fish passage requirements, of these passes 2 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the SHRIMP BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

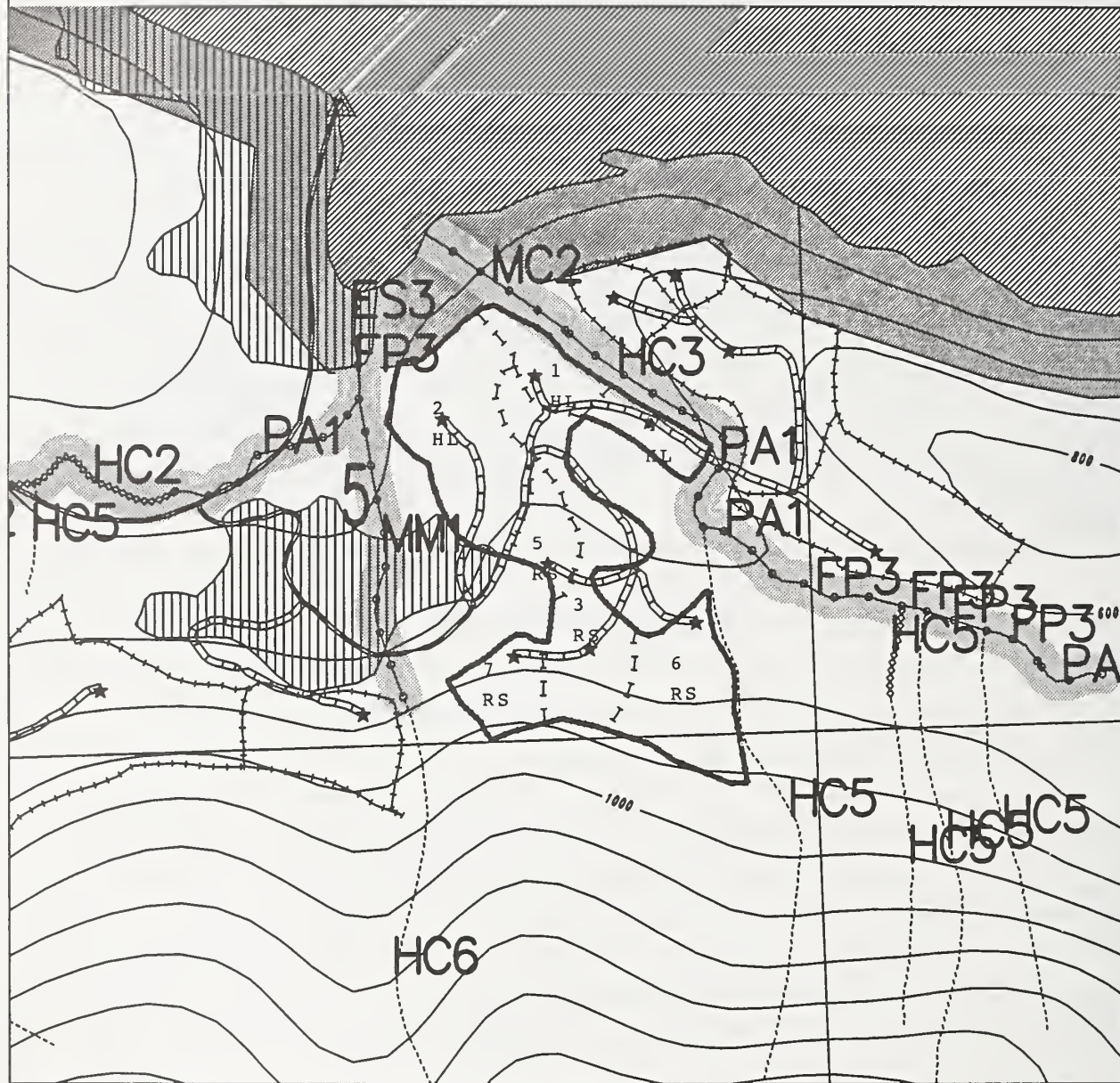
There are no geological mitigation measures anticipated for this unit.

VCU: 7330 UNIT NUMBER: 3033

PLANNED HARVEST UNIT MAP

ACRES: 62 VOLUME: 1760 MBP QUAD(s): KTND5 QUARTER QUAD(s): SEN
 PHOTO NUM.: 1279-40 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

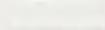
HL HIGHLEAD

RS RUNNING SKYLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



June 29, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>3034</u>	No. Settings <u>2</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>38</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1192</u>		Mgmt Area <u>K32</u> VCU <u>7330</u>	Plant Series <u>WHM</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-194</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 38 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 26 acres 800-1200 ft. 12 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 1 acres Medium 24 acres High 13 acres Very High 0 acres
Cedar 0 Hemlock 38 Mixed 0 Percent Seen 26 Percent Unseen 74 Aspect North

SOILS

This unit has 13 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 9 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 3 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the _____ viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7330UNIT NUMBER: 3034

PLANNED HARVEST UNIT MAP

ACRES: 38VOLUME: 1192

MBP

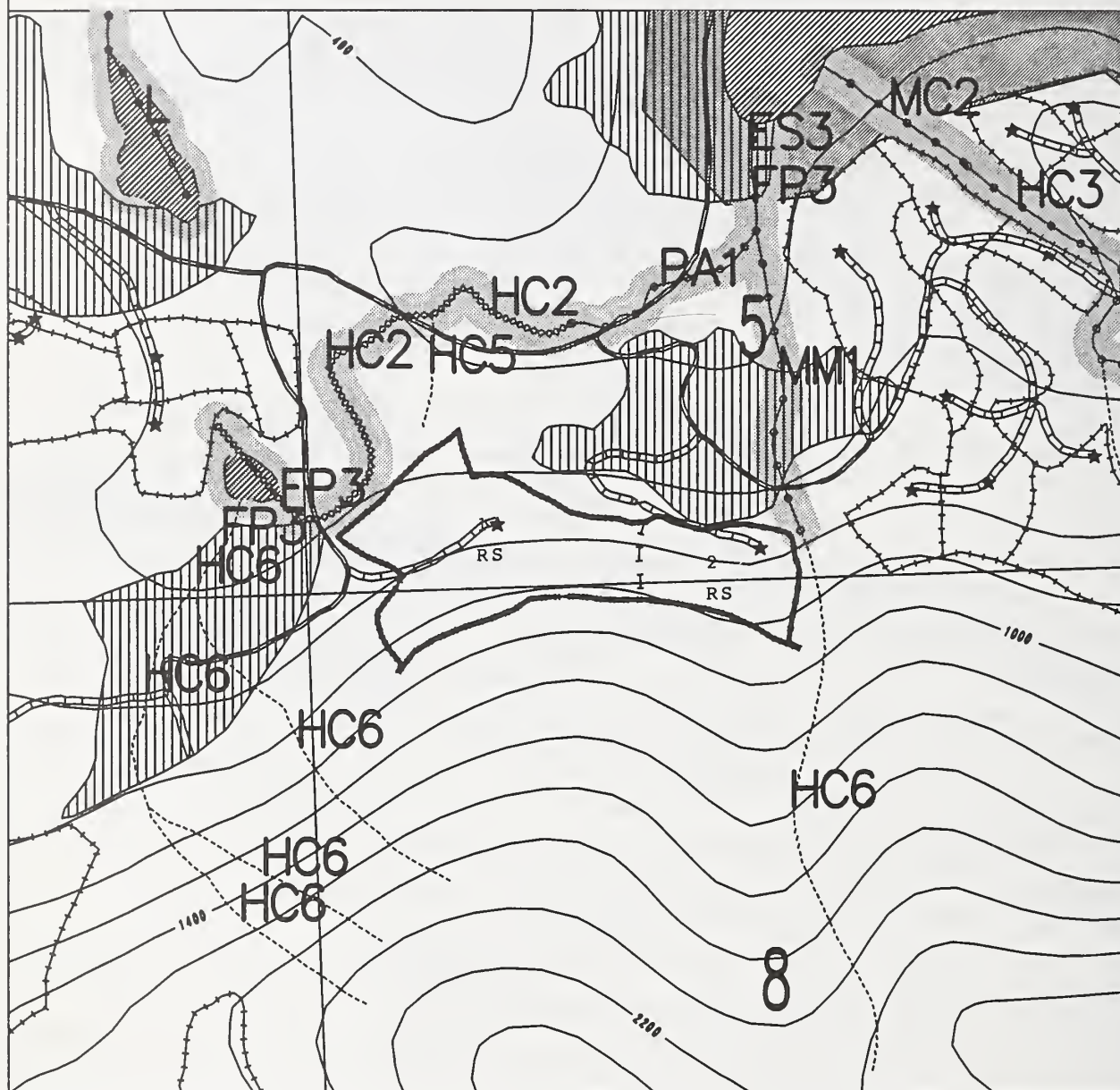
QUAD(s): KTND5QUARTER QUAD(s): SEN/SWNPHOTO NUM.: 1179-194

LANDNET INFO

TOWNSHIP

70SRANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE



SHELTERWOOD



HARVEST



BEACH BUFFER



HARVEST

BEACH BUFFER



June 29, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>3035</u>	No. Settings <u>10</u>	Alternatives considered <u>4 5</u>	VQO <u>MM</u>
Planned acres <u>68</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2455</u>		Mgmt Area <u>K32</u> VCU <u>7330</u>	Plant Series <u>CMM</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-194</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 21 acres VC5 0 acres VC6 47 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 68 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 16 acres Medium 52 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 21 Mixed 48 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 17 acres that may require partial or full suspension (BMP 13.9)
This unit contains 8 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

All trees less than 12 inches DBH within 35 feet of Class III streams, will remain standing in these units.
There are 4 streams which have fish passage requirements, of these passes 2 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

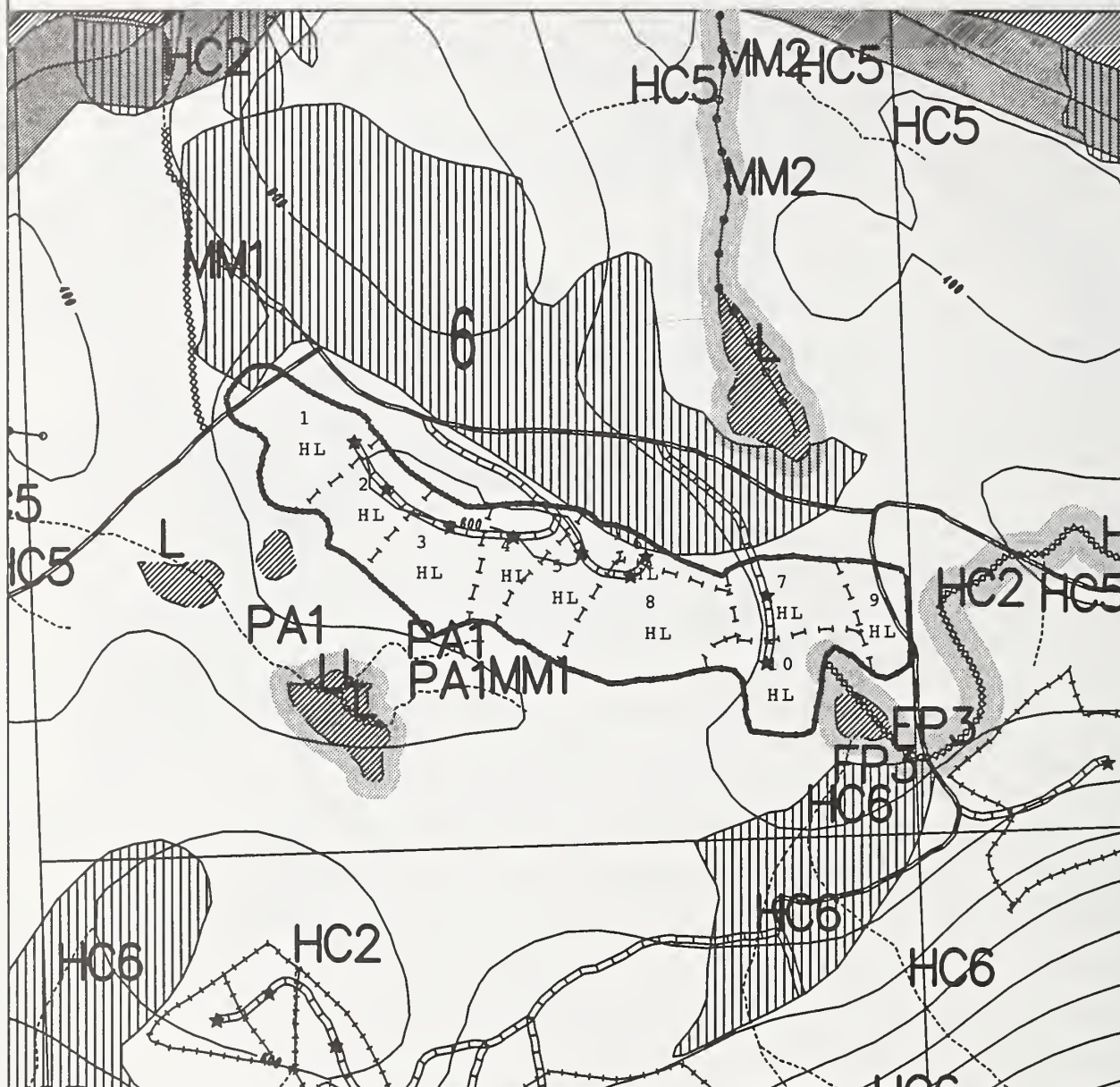
There are no geological mitigation measures anticipated for this unit.

VCU: 7330UNIT NUMBER: 3035

PLANNED HARVEST UNIT MAP

ACRES: 68 VOLUME: 2455 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWN
 PHOTO NUM.: 1179-194 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGH LEAD



SHELTERWOOD

HARVEST

BEACH BUFFER



June 29, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>3036</u>	No. Settings <u>1</u>	Alternatives considered <u>4 5</u>	VQO <u>M</u>
Planned acres <u>37</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1518</u>		Mgmt Area <u>K32</u> VCU <u>7330</u>	Plant Series <u>WHM</u>
Logging methods <u>SL</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-19</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 0 acres VC6 37 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 4 acres 800-1200 ft. 20 acres 1200-1500 ft. 11 acres over 1500 ft. 2 acres
Mass movement index: Low 0 acres Medium 1 acres High 36 acres Very High 0 acres
Cedar 0 Hemlock 0 Mixed 37 Percent Seen 70 Percent Unseen 30 Aspect North

SOILS

This unit has 37 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 11 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the SHRIMP BAY viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

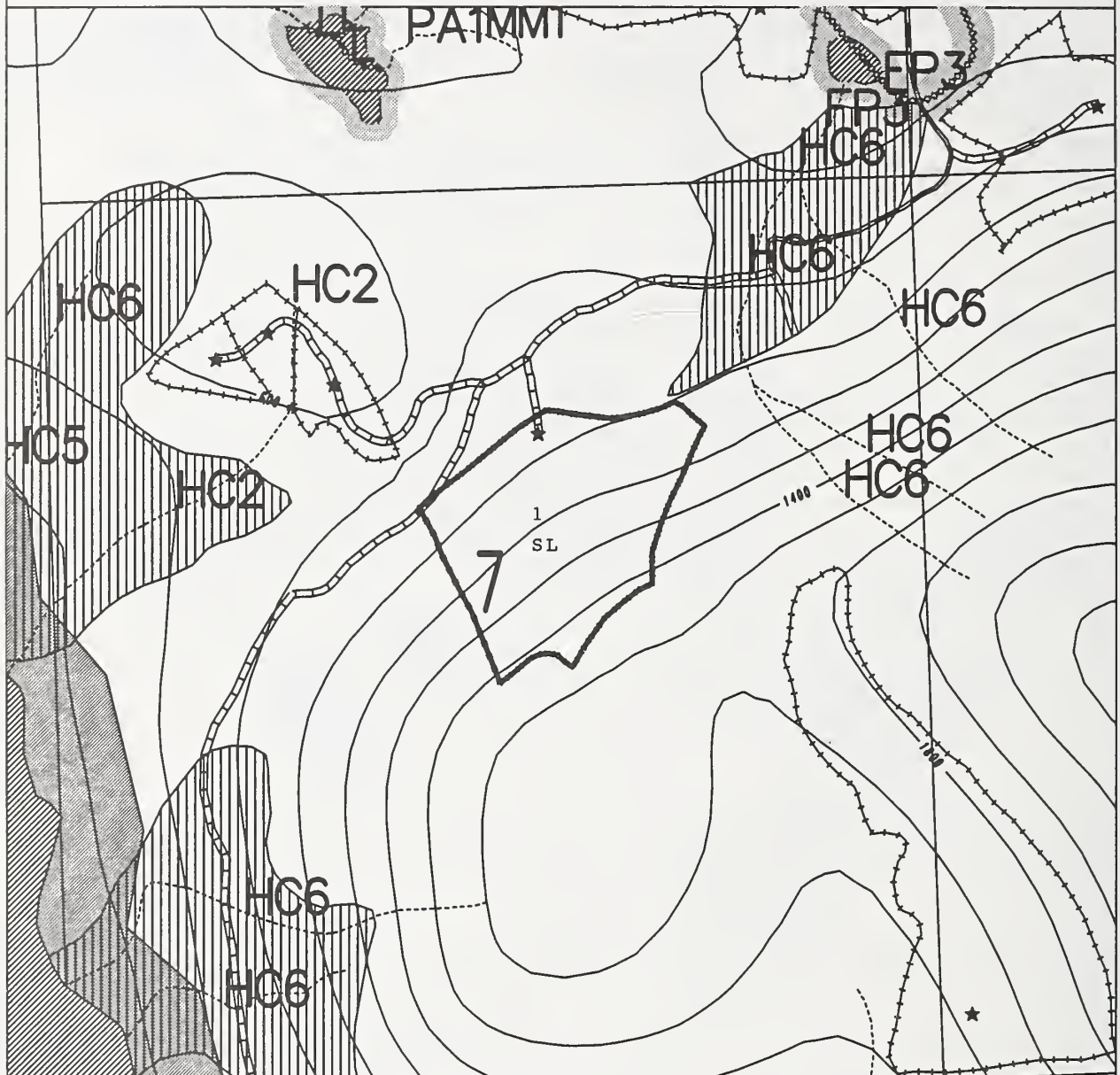
There are no geological mitigation measures anticipated for this unit.

VCU: 7330UNIT NUMBER: 3036

PLANNED HARVEST UNIT MAP

ACRES: 37 VOLUME: 1518 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWN
 PHOTO NUM.: 1179-19 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 PT CONTOUR INTERVAL
 0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

SL SLACKLINE

SHELTERWOOD
 HARVEST
 BEACH BUFFER



June 29, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>3037</u>	No. Settings <u>2</u>	Alternatives considered <u>4</u>	VQO <u>PR</u>
Planned acres <u>43</u>		Quad <u>KTND5SEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1417</u>		Mgmt Area <u>K32</u> VCU <u>7330</u>	Plant Series <u>WHS</u>
Logging methods <u>HL SL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-42</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 36 acres VC6 7 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 43 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 43 acres Very High 0 acres
Cedar 0 Hemlock 42 Mixed 0 Percent Seen 40 Percent Unseen 60 Aspect South

SOILS

This unit has 42 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

All trees less than 12 inches DBH within 35 feet of Class III streams, will remain standing in these units.
There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

Harvest operations restricted to April 1 to October 31 to protect trumpeter swans on Margaret, Orchard, Lakes, Klu Bay and the head of Traitors Cove.
Maintain adequate distribution of snags by leaving 0.1 acre-sized patches of green trees within the unit for every 10 acres harvested. Snag patches must be compatible with logging system and safe working conditions.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the KLU BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7330UNIT NUMBER: 3037

PLANNED HARVEST UNIT MAP

ACRES: 43VOLUME: 1417

MBP

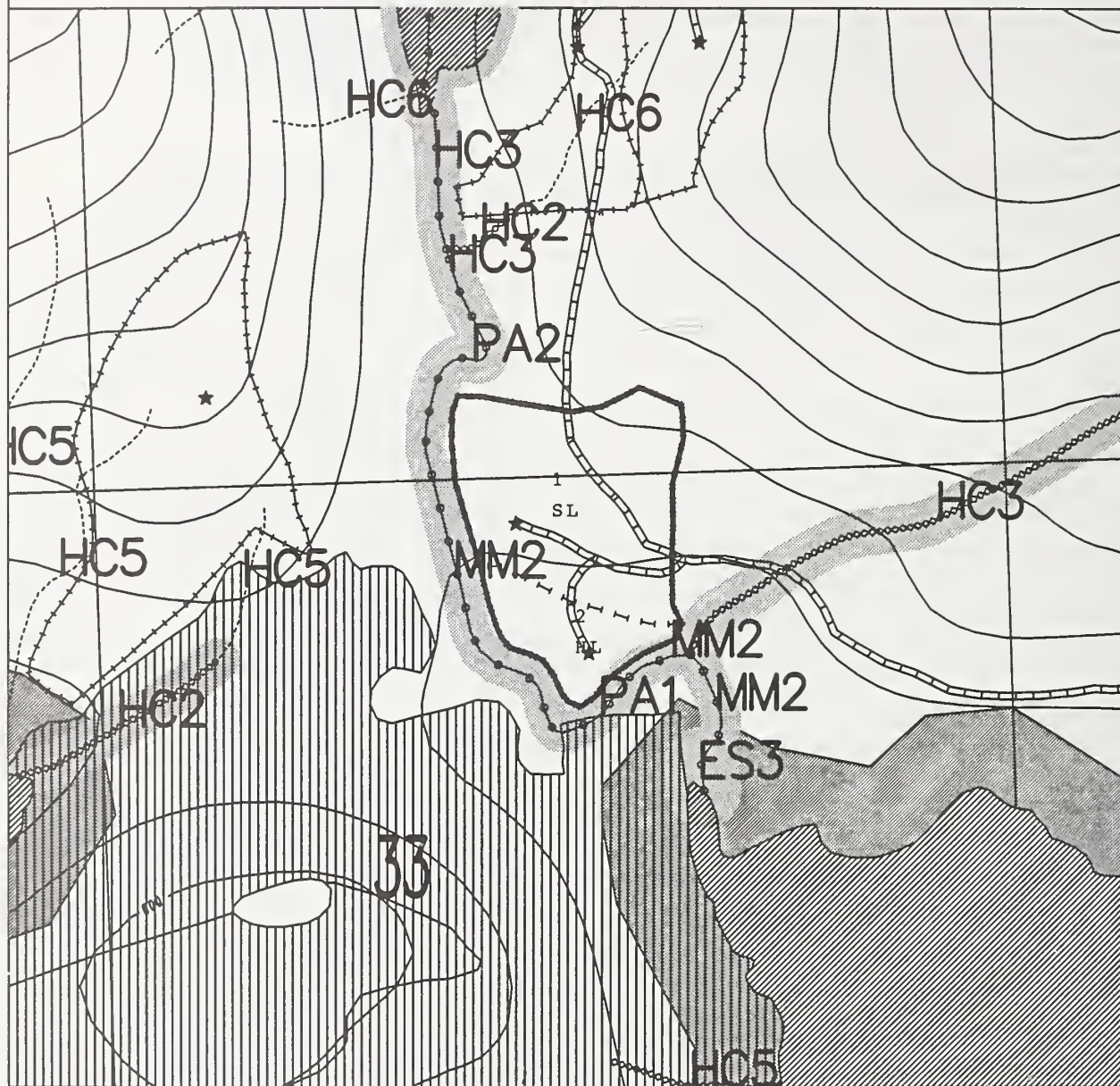
QUAD(s): KTND5QUARTER QUAD(s): SENPHOTO NUM.: 1279-42

LANDNET INFO

TOWNSHIP

69SRANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

SL SLACKLINE

HL HICHLAD

SHELTERWOOD

HARVEST

BEACH BUFFER



June 29, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>3038</u>	No. Settings <u>2</u>	Alternatives considered <u>4</u>	VQO <u>M</u>
Planned acres <u>43</u>		Quad <u>KTND5SEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1303</u>		Mgmt Area <u>K32</u> VCU <u>7330</u>	Plant Series <u>NFS</u>
Logging methods <u>RS</u> <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-114</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 7 acres VC5 36 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 9 acres 800-1200 ft. 21 acres 1200-1500 ft. 13 acres over 1500 ft. 0 acres
Mass movement index: Low 2 acres Medium 22 acres High 19 acres Very High 0 acres
Cedar 0 Hemlock 39 Mixed 3 Percent Seen 81 Percent Unseen 19 Aspect North

SOILS

This unit has 20 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit contains 2 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are 2 streams which have fish passage requirements, of these passes 2 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the SHRIMP BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

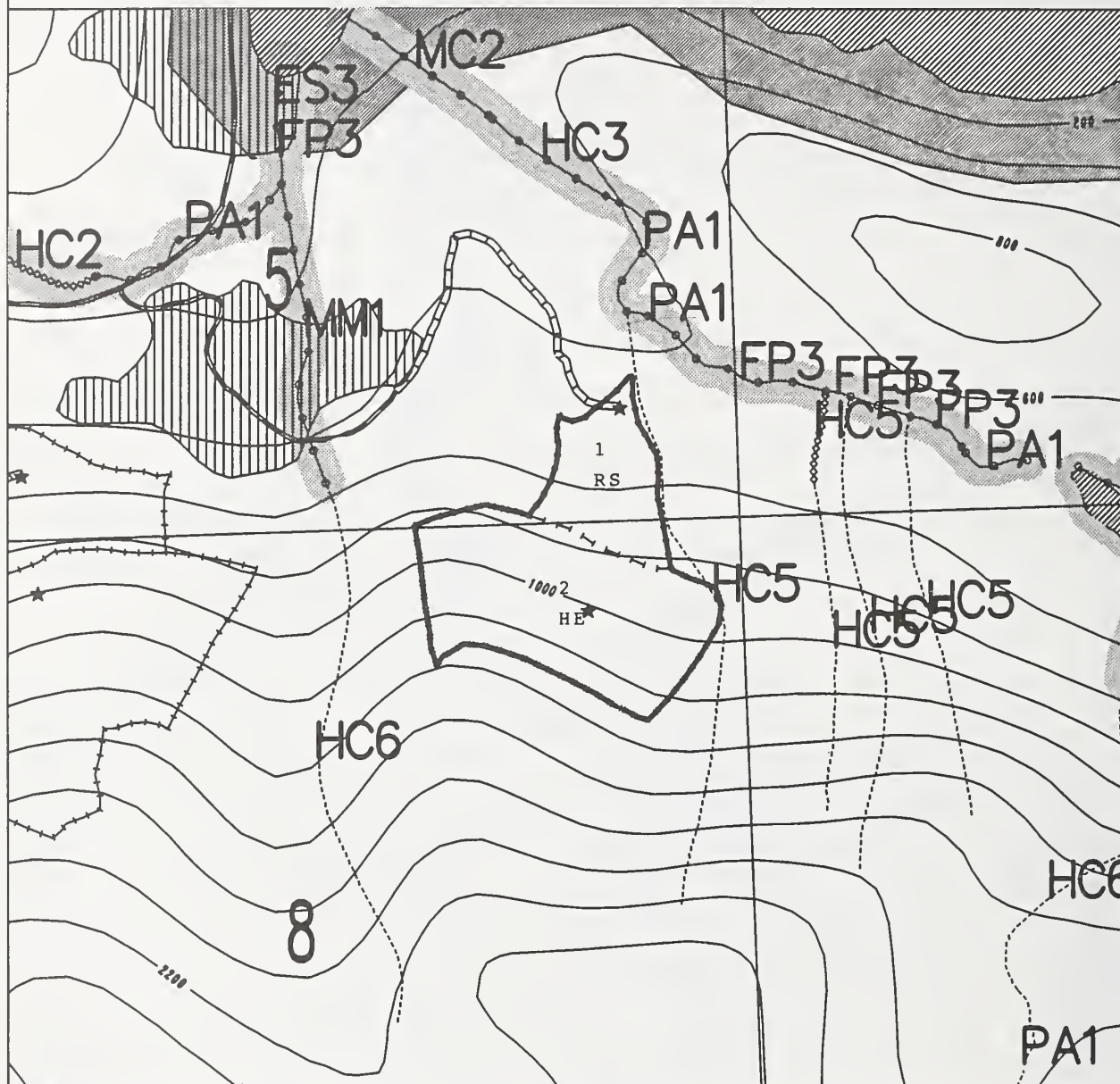
GEOLOGY

There are no geological mitigation measures anticipated for this unit.

PLANNED HARVEST UNIT MAP

ACRES: 43 VOLUME: 1303 MBP QUAD(s): KTND5 QUARTER QUAD(s): SEN
PHOTO NUM.: 1279-114 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE
HE HELICOPTER

SHELTERWOOD
HARVEST
BEACH BUFFER



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>3039</u>	No. Settings <u>2</u>	Alternatives considered <u>4</u>	VQO <u>M</u>
Planned acres <u>80</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2541</u>		Mgmt Area <u>K32</u> VCU <u>7330</u>	Plant Series <u>WHM</u>
Logging methods <u>RS</u> <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-194</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 7 acres VC5 65 acres VC6 8 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 18 acres 800-1200 ft. 24 acres 1200-1500 ft. 21 acres over 1500 ft. 17 acres
Mass movement index: Low 1 acres Medium 27 acres High 52 acres Very High 0 acres
Cedar 0 Hemlock 71 Mixed 8 Percent Seen 75 Percent Unseen 25 Aspect North

SOILS

This unit has 52 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 11 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 2 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the SHRIMP BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

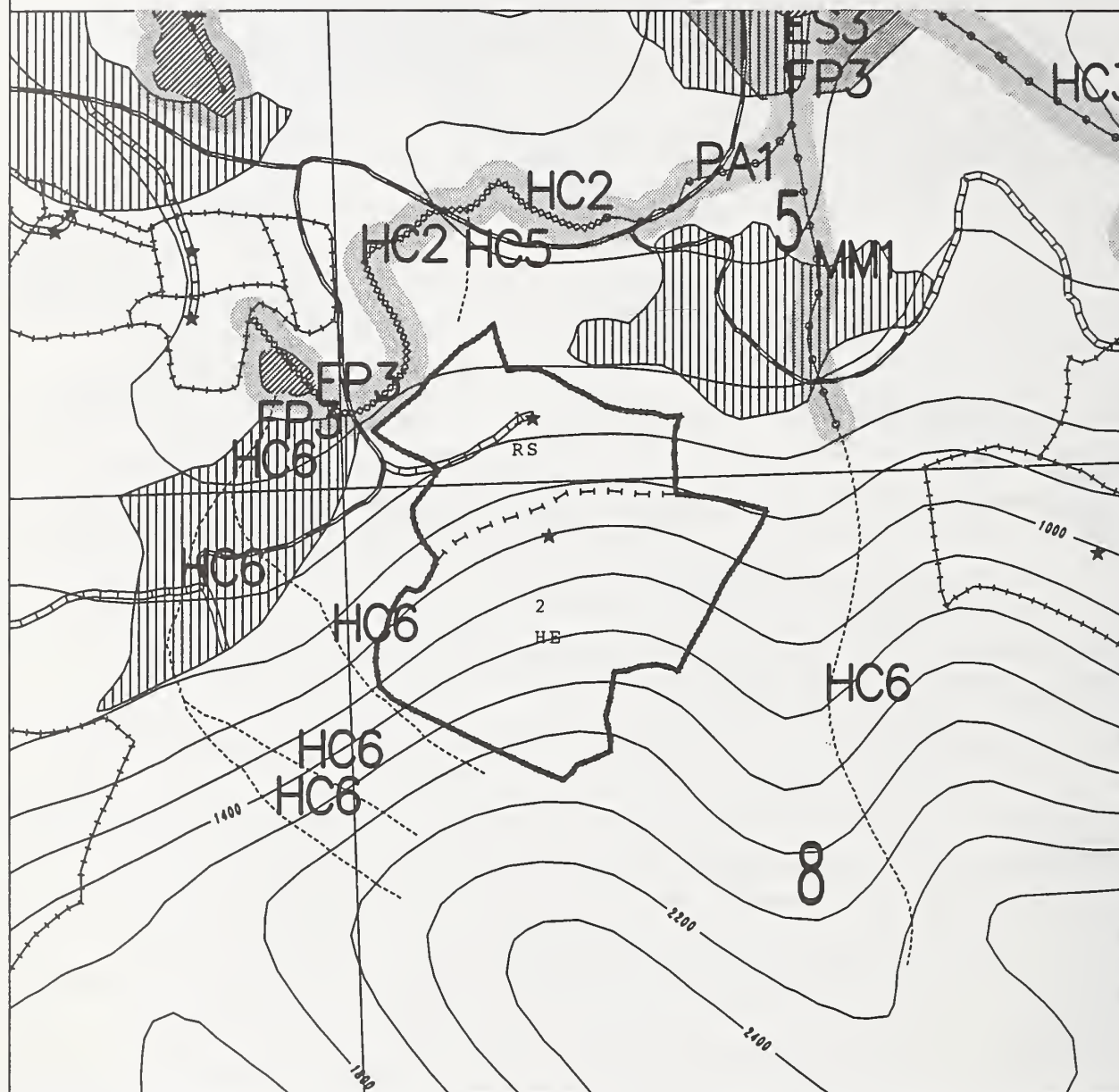
There are no geological mitigation measures anticipated for this unit.

VCU: 7330UNIT NUMBER: 3039

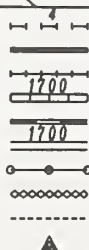
PLANNED HARVEST UNIT MAP

ACRES: 80 VOLUME: 2541 MBP QUAD(s): KTND5 QUARTER QUAD(s): SEN/SWN
 PHOTO NUM.: 1179-194 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 EAGLE TREE (↑)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

RS RUNNING SKYLINE
 HE HELICOPTER

SHELTERWOOD
 HARVEST
 BEACH BUFFER



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>4002</u>	No. Settings <u>3</u>	Alternatives considered <u>2 4 5</u>	VQO <u>MM</u>
Planned acres <u>57</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1966</u>		Mgmt Area <u>K32</u> VCU <u>7400</u>	Plant Series <u>CMM</u>
Logging methods <u>RS</u>		WAA <u>509</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-58</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 4 acres VC5 32 acres VC6 21 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 1 acres over 1500 ft. 56 acres
Mass movement index: Low 46 acres Medium 0 acres High 11 acres Very High 0 acres
Cedar 0 Hemlock 49 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect South

SOILS

This unit has 57 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 7 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 40 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).
Oversteepened slopes may require full bench construction on 0.47 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7400

UNIT NUMBER: 4002

PLANNED HARVEST UNIT MAP

ACRES: 57

VOLUME: 1966

MBP

QUAD(s): KTNCS

QUARTER QUAD(s): NWS

PHOTO NUM.:

1179-58

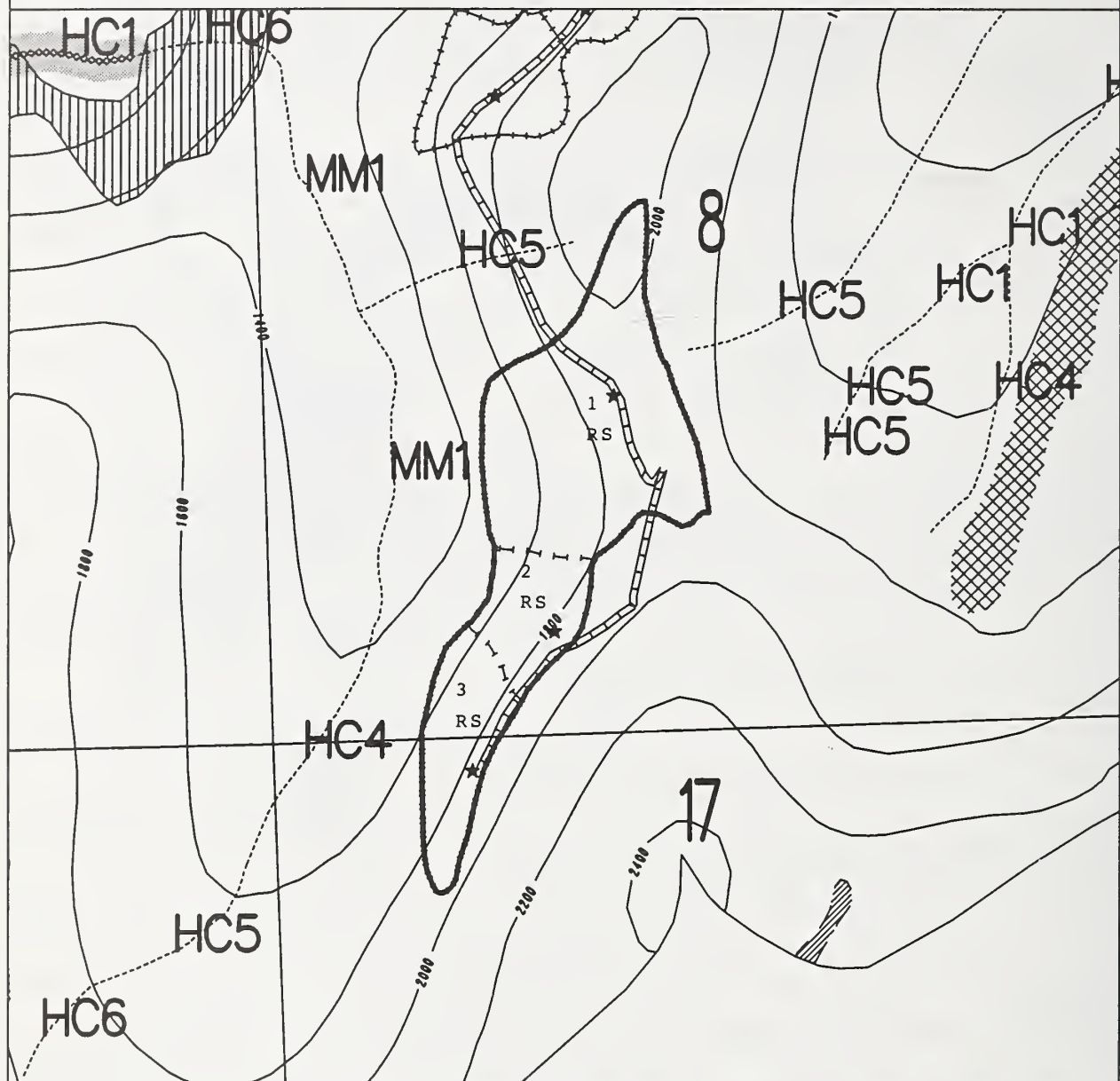
LANDNET INFO

TOWNSHIP

72S

RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL

0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE



SHELTERWOOD
HARVEST
BEACH BUFFER



June 29, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>4004</u>	No. Settings <u>2</u>	Alternatives considered <u>2 4 5</u>	VQO <u>MM</u>
Planned acres <u>17</u>	Quad <u>KTNC5NWS</u>		Windthrow risk <u>H</u>
Estimated volume (mbf) <u>425</u>	Mgmt Area <u>K32</u> VCU <u>7400</u>		Plant Series <u>MHA</u>
Logging methods <u>HL</u>	WAA <u>509</u>		Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>	1981 Photo <u>1179-58</u>		

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 17 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 17 acres
Mass movement index: Low 17 acres Medium 0 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 14 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 17 acres that may require partial or full suspension (BMP 13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 7 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).
Oversteepened slopes may require full bench construction on 0.39 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7400UNIT NUMBER: 4004

PLANNED HARVEST UNIT MAP

ACRES: 17VOLUME: 425

MBF

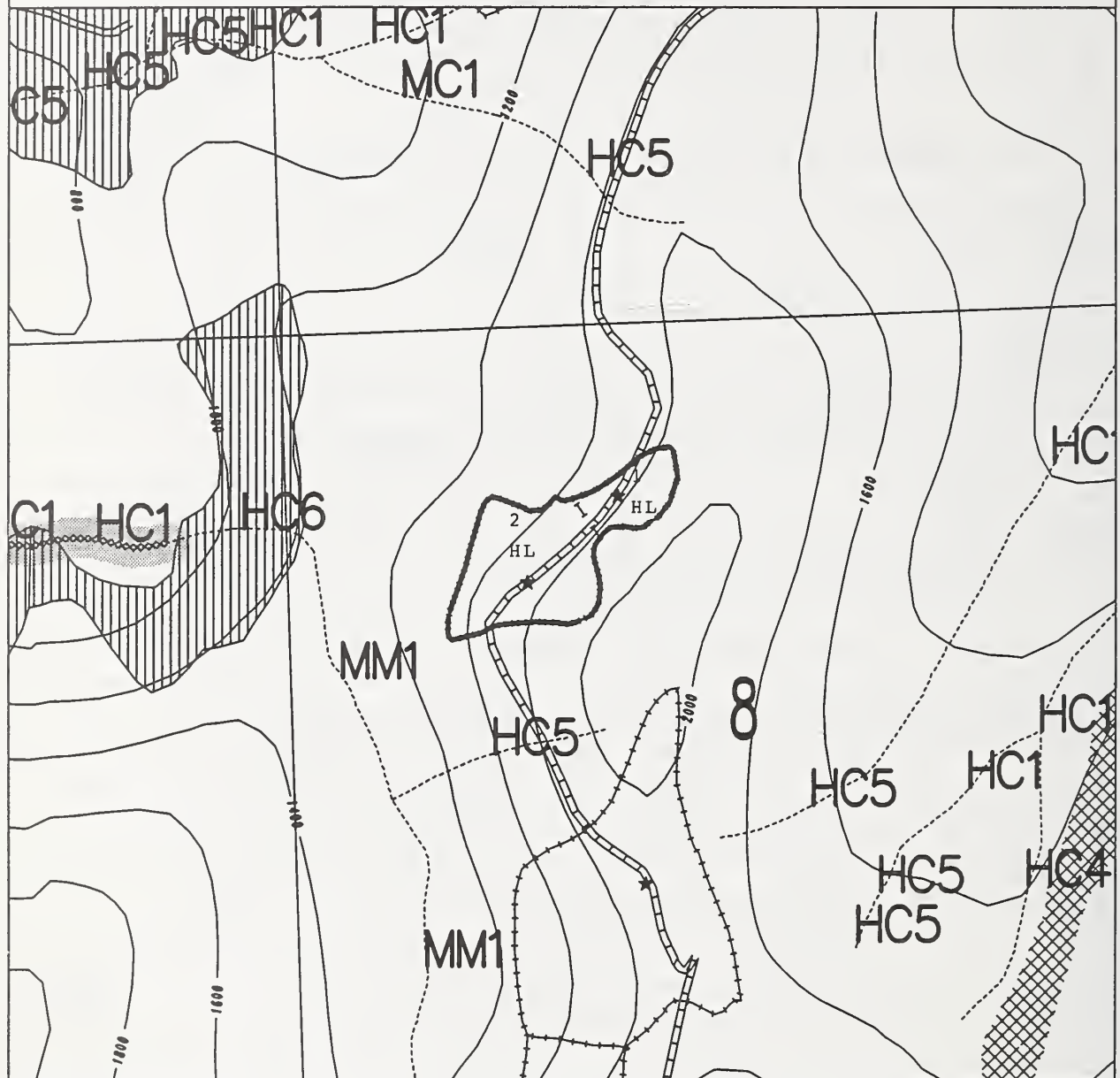
QUAD(s): KTNC5QUARTER QUAD(s): NWSPHOTO NUM.: 1179-58

LANDNET INFO

TOWNSHIP

72SRANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGH LEAD



SHELTERWOOD



HARVEST



BEACH BUFFER



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>4006</u>	No. Settings <u>2</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>M</u>
Planned acres <u>58</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1529</u>		Mgmt Area <u>K32</u> VCU <u>7400</u>	Plant Series <u>WHC</u>
Logging methods <u>RS</u>		WAA <u>509</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-60</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 53 acres VC5 0 acres VC6 5 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 12 acres over 1500 ft. 46 acres
Mass movement index: Low 58 acres Medium 0 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 52 Mixed 6 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 58 acres that may require partial or full suspension (BMP 13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 26 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 29 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the BEHM/TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

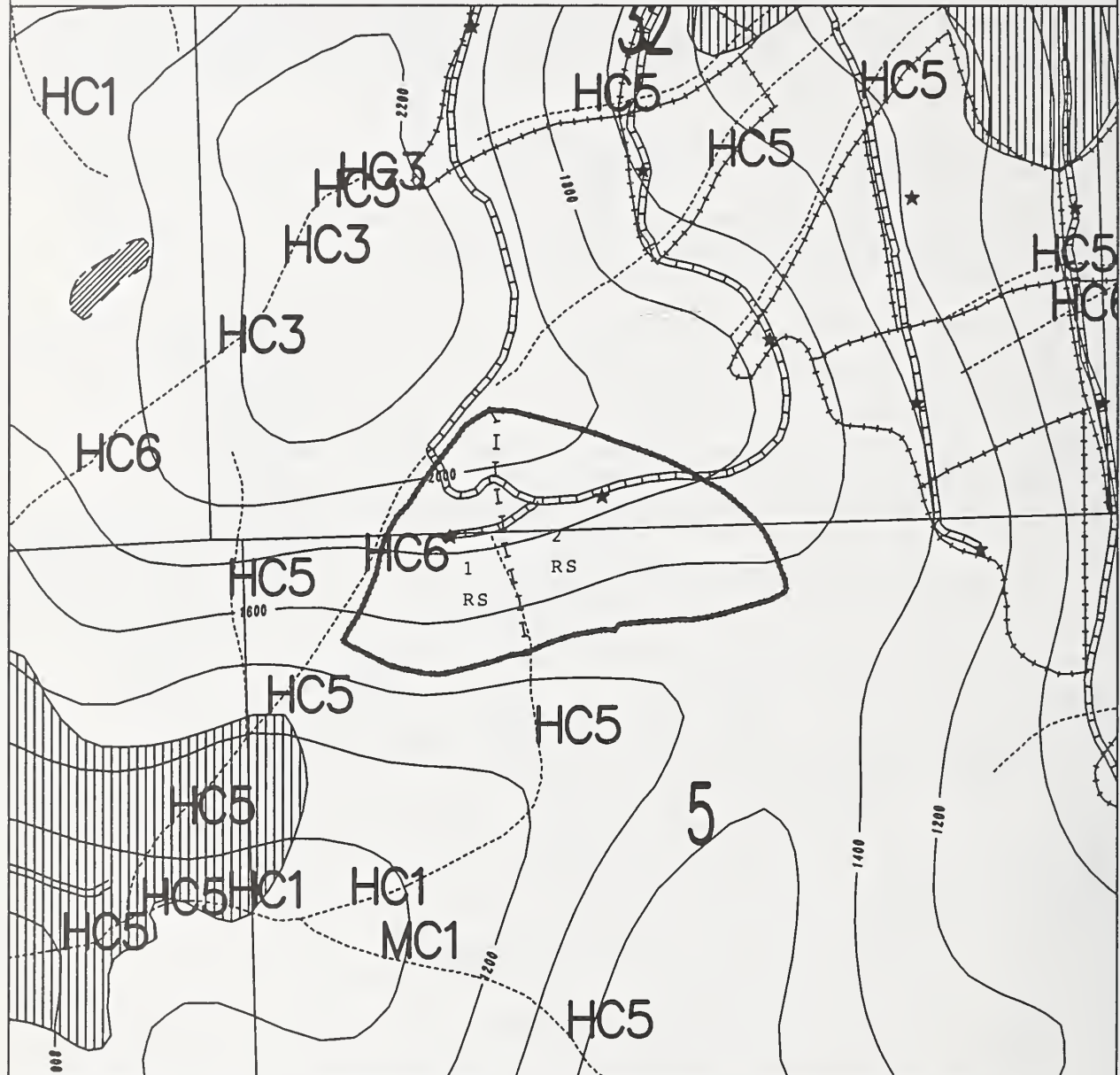
There are no geological mitigation measures anticipated for this unit.

VCU: 7400 UNIT NUMBER: 4006

PLANNED HARVEST UNIT MAP

ACRES: 58 VOLUME: 1529 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-60 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (upward arrow symbol)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:
 RS RUNNING SKYLINE

SHELTERWOOD
 HARVEST
 BEACH BUFFER



June 29, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>4007</u>	No. Settings <u>4</u>	Alternatives considered <u>4 5</u>	VQO <u>M</u>
Planned acres <u>95</u>		Quad <u>KTNC5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2453</u>		Mgmt Area <u>K32</u> VCU <u>7400</u>	Plant Series <u>NME</u>
Logging methods <u>SL RS</u>		WAA <u>509</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-60</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 90 acres VC5 0 acres VC6 5 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 13 acres 1200-1500 ft. 36 acres over 1500 ft. 46 acres
Mass movement index: Low 90 acres Medium 0 acres High 5 acres Very High 0 acres
Cedar 0 Hemlock 88 Mixed 5 Percent Seen 97 Percent Unseen 3 Aspect South

SOILS

This unit has 95 acres that may require partial or full suspension (BMP 13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 49 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

This unit contains 35 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

All trees less than 12 inches DBH within 35 feet of Class III streams, will remain standing in these units.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the BEHM/TRAITORS COVE viewshed, approximately a minimum 1/4 mile from shoreline.

There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7400

UNIT NUMBER: 4007

PLANNED HARVEST UNIT MAP

ACRES: 95

VOLUME: 2453

MBP

QUAD(s): KTNC5

QUARTER QUAD(s): NWS

PHOTO NUM.: 1179-60

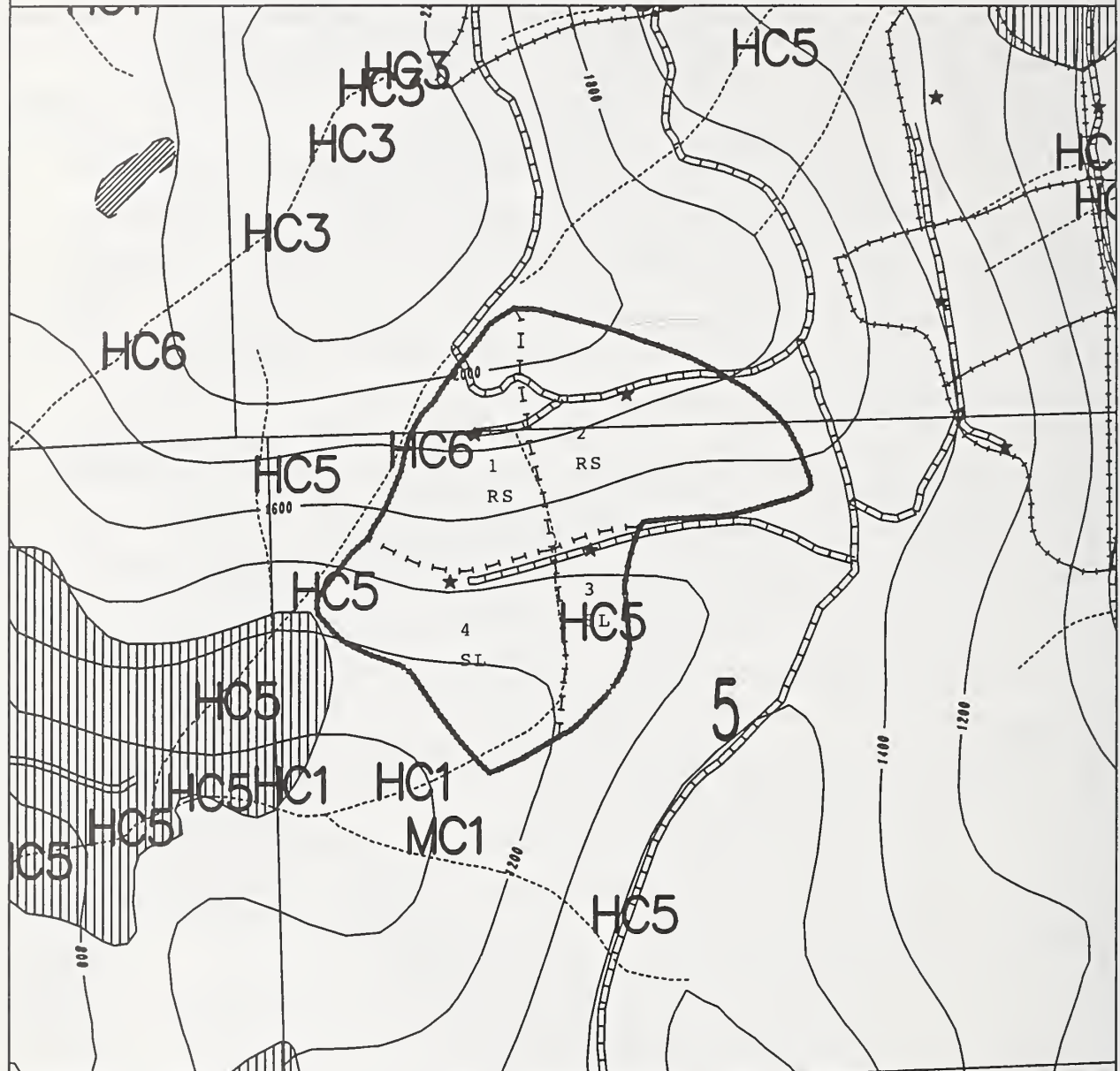
LANDNET INFO

TOWNSHIP

71S

RANGE 90P

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE

SL SLACKLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



June 29, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5003</u>	No. Settings <u>1</u>	Alternatives considered <u>2 3 4 5 6</u>	VQO <u>PR</u>
Planned acres <u>13</u>		Quad <u>KTND5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>452</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>WHS</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-84</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 5 acres VC5 0 acres VC6 8 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 7 acres 800-1200 ft. 6 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 2 acres Medium 11 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 5 Mixed 8 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has 13 acres that may require partial or full suspension (BMP 13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Oversteepened slopes may require full bench construction on 0.20 miles of road
and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the BEHM/W.HASSLER viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

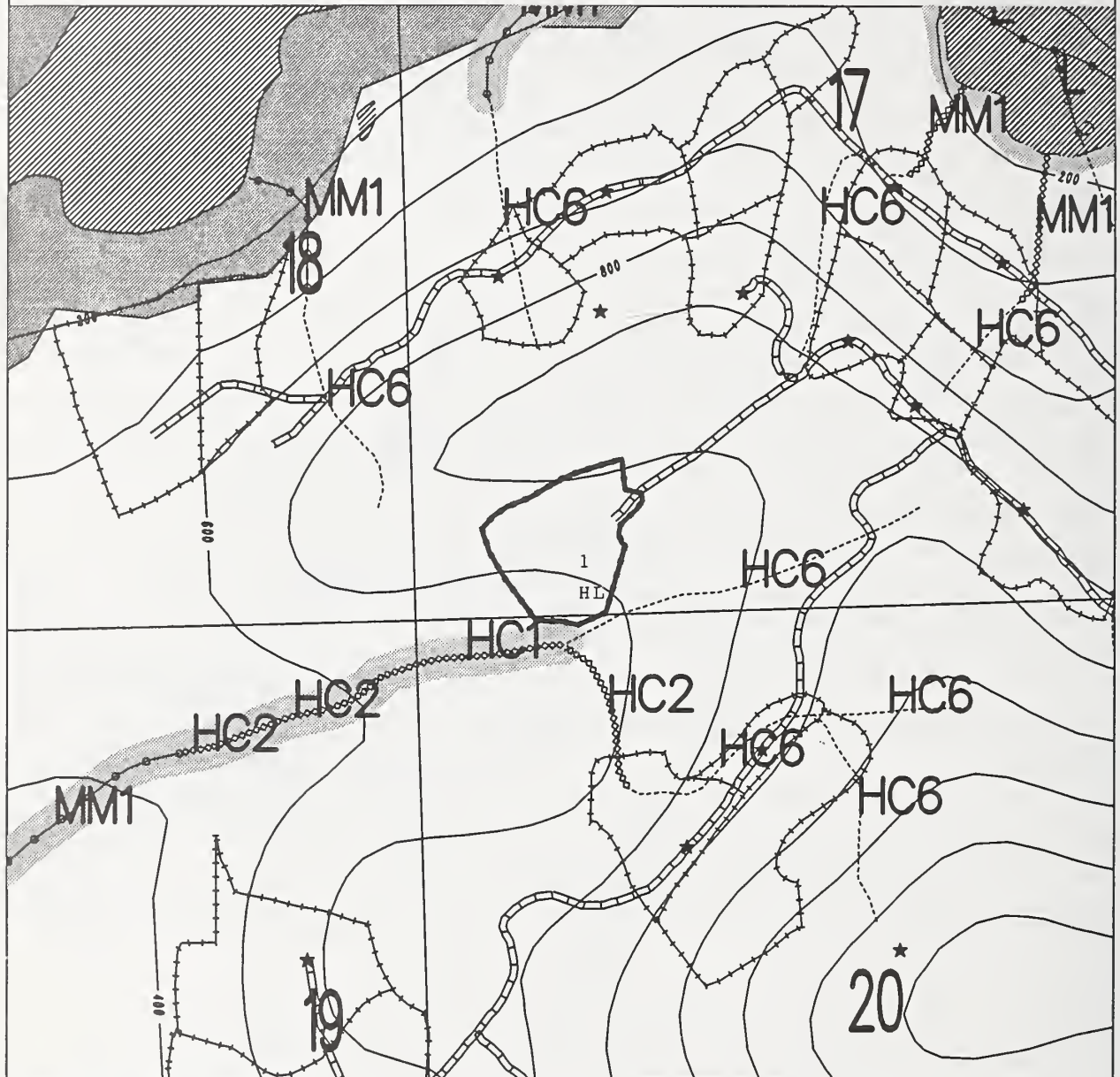
There are no geological mitigation measures anticipated for this unit.

VCU: 7350UNIT NUMBER: 5003

PLANNED HARVEST UNIT MAP

ACRES: 13 VOLUME: 452 MBP QUAD(s): KTND5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-84 LANDNET INFO TOWNSHIP 69S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE ↑

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUPPER



LOGGING SYSTEMS:

HL HIGHLEAD

SHELTERWOOD

HARVEST

BEACH BUPPER



June 30, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5004</u>	No. Settings <u>4</u>	Alternatives considered <u>2</u>	VQO <u>PR</u>
Planned acres <u>72</u>		Quad <u>KTND5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2042</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>CMM</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-84</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 34 acres VC5 38 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 8 acres 800-1200 ft. 26 acres 1200-1500 ft. 25 acres over 1500 ft. 13 acres
Mass movement index: Low 5 acres Medium 60 acres High 7 acres Very High 0 acres
Cedar 0 Hemlock 70 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has 71 acres that may require partial or full suspension (BMP 13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 6 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction on 0.71 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the BEHM/N.HASSLER viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

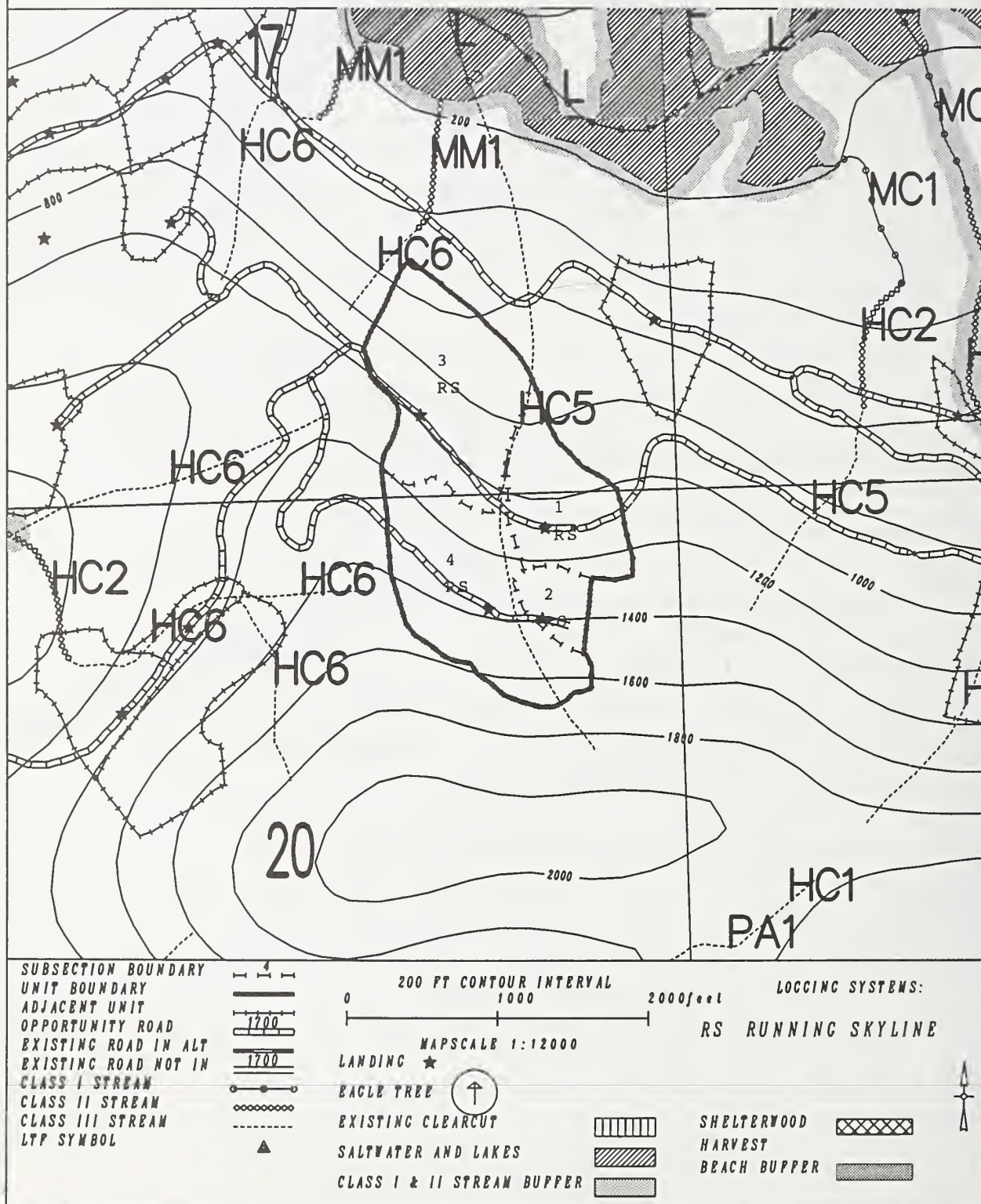
There are no geological mitigation measures anticipated for this unit.

VCU: 7350UNIT NUMBER: 5004

PLANNED HARVEST UNIT MAP

ACRES: 72 VOLUME: 2042 MBF QUAD(s): KTND5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-84 LANDNET INFO TOWNSHIP 69S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5005</u>	No. Settings <u>2</u>	Alternatives considered _____	VQO <u>PR</u>
Planned acres <u>15</u>		Quad <u>KTND5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>470</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>WHS</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-83</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 15 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 1 acres 800-1200 ft. 13 acres 1200-1500 ft. 1 acres over 1500 ft. 0 acres
Mass movement index: Low 2 acres Medium 13 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 13 Mixed 0 Percent Seen _____ Percent Unseen _____ Aspect North

SOILS

This unit has 15 acres that may require partial or full suspension (BMP 13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction on 0.56 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the BEHM/W.HASSLER viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

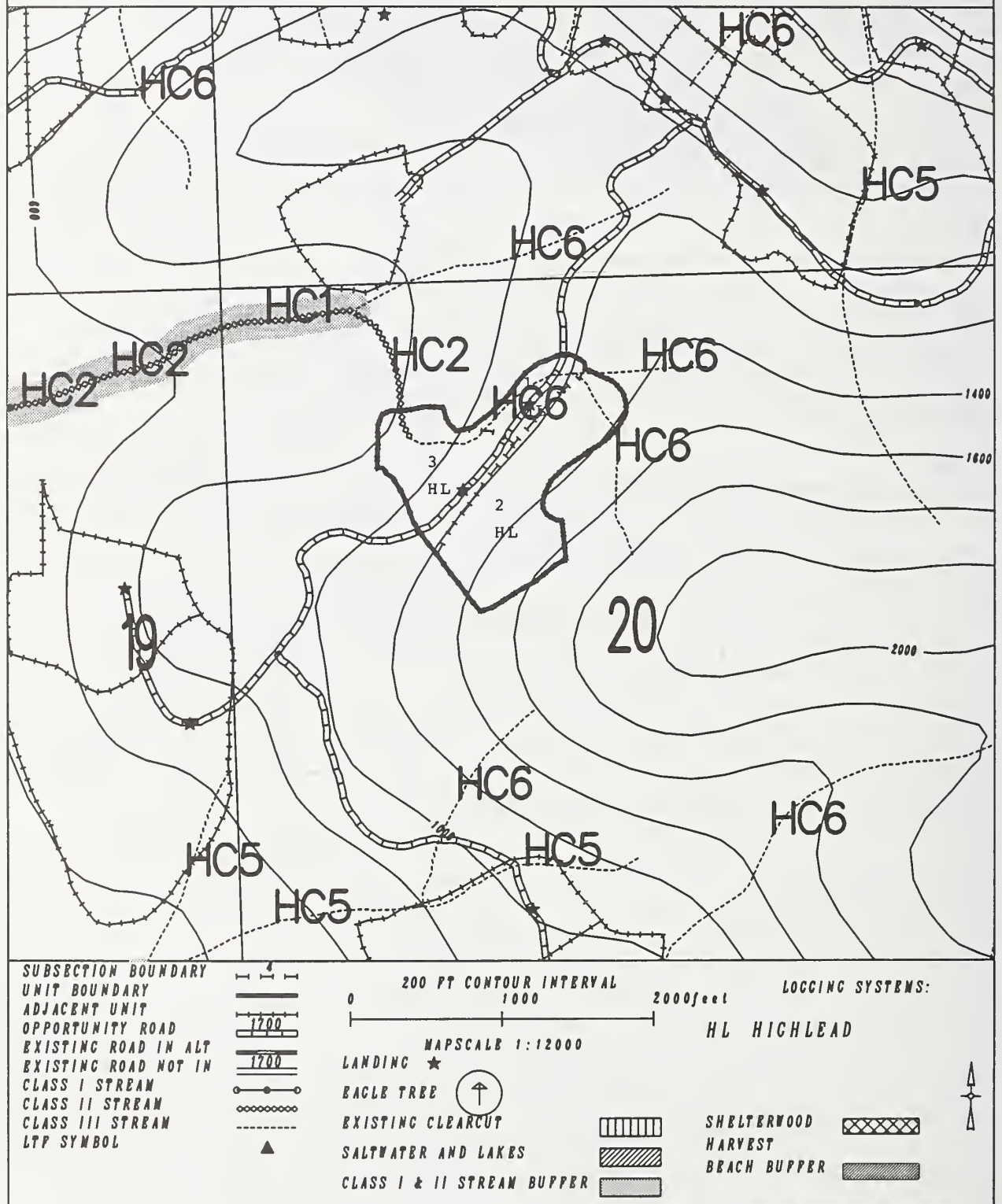
There are no geological mitigation measures anticipated for this unit.

VCU: 7350UNIT NUMBER: 5005

PLANNED HARVEST UNIT MAP

ACRES: 34 VOLUME: 1127 MBP QUAD(s): KTND5 QUARTER QUAD(s): NWS/SWN
 PHOTO NUM.: 1179-83 LANDNET INFO TOWNSHIP 69S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



June 30, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5006</u>	No. Settings <u>2</u>	Alternatives considered <u>2</u> <u>4</u>	VQO <u>PR</u>
Planned acres <u>23</u>		Quad <u>KTND5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>848</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>WHS</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-31</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 6 acres VC5 0 acres VC6 17 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 17 acres 800-1200 ft. 6 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 3 acres Medium 4 acres High 16 acres Very High 0 acres
Cedar 0 Hemlock 6 Mixed 17 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has 23 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 9 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

This unit contains 2 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the BEHM/W.HASSLER viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7350UNIT NUMBER: 5006

PLANNED HARVEST UNIT MAP

ACRES: 23VOLUME: 848

MBP

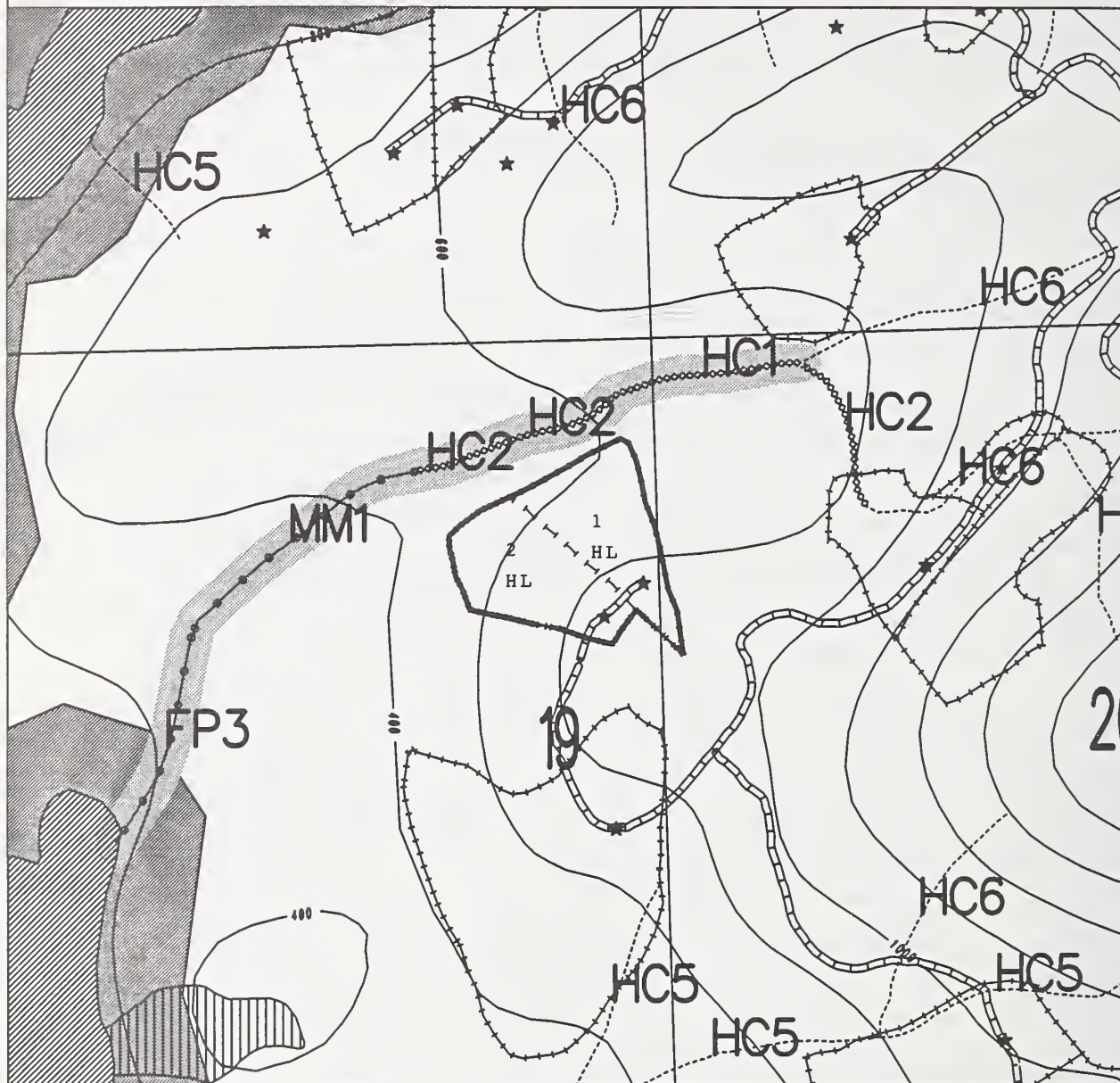
QUAD KFND5/KTND6QUARTER QMS/NES/SWN/SENPHOTO NUM.: 1179-31

LANDNET INFO

TOWNSHIP

69SRANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGHLEAD



SHELTERWOOD
HARVEST
BEACH BUFFER



June 30, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5007</u>	No. Settings <u>1</u>	Alternatives considered <u>2 4</u>	VQO <u>MR</u>
Planned acres <u>46</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1472</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>WHC</u>
Logging methods <u>SL</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-31</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 6 acres VC5 33 acres VC6 7 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 41 acres 800-1200 ft. 2 acres 1200-1500 ft. 0 acres over 1500 ft. 3 acres
Mass movement index: Low 9 acres Medium 12 acres High 25 acres Very High 0 acres
Cedar 0 Hemlock 6 Mixed 40 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has 46 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 24 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 8 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of MR as seen from viewpoints within the BEHM/GEDNEY PASS viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

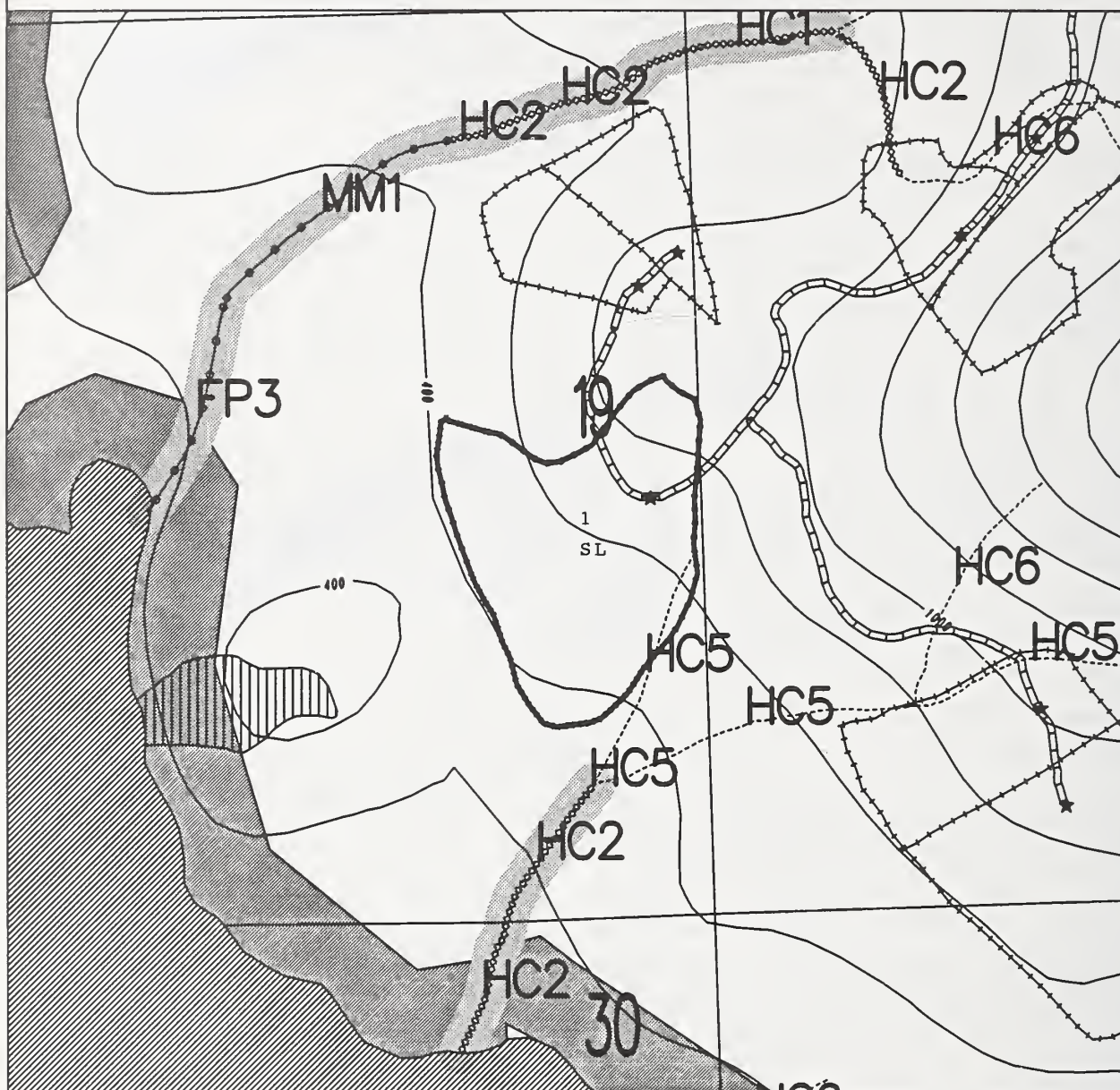
There are no geological mitigation measures anticipated for this unit.

VCU: 7350UNIT NUMBER: 5007

PLANNED HARVEST UNIT MAP

ACRES: 46 VOLUME: 1472 MBP QUAD(~~K~~)ND5/KTND6 QUARTER QUAD(+):SWN/SEN
 PHOTO NUM.: 1179-31 LANDNET INFO TOWNSHIP 69S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BAGLE TREE (upward arrow in circle)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

SL SLACKLINE

SHELTERWOOD
 HARVEST
 BEACH BUFFER



June 30, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5008</u>	No. Settings <u>2</u>	Alternatives considered <u>2 3 4 6</u>	VQO <u>M</u>
Planned acres <u>62</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1944</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>CCS</u>
Logging methods <u>SL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-82</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 62 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 42 acres 800-1200 ft. 20 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 40 acres Medium 22 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 58 Mixed 4 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has 62 acres that may require partial or full suspension (BMP 13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

Replanting of yellow and red cedar should be considered.
Recommendation is to perform a prescribed burn after harvest is completed to promote regeneration.
Potentially very low volume per acre.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the BEHM/GEDNEY PASS viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

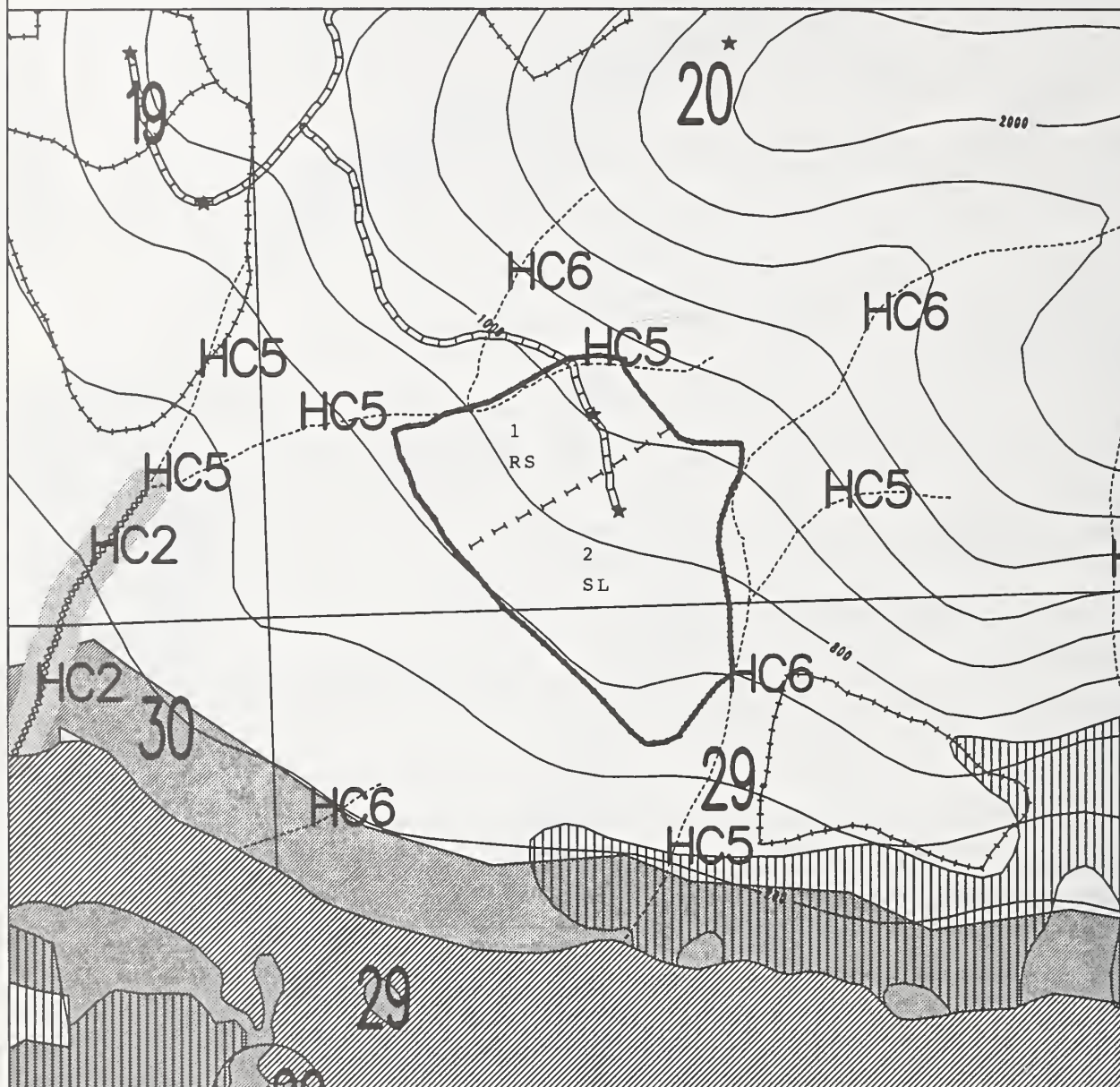
There are no geological mitigation measures anticipated for this unit.

VCU: 7350UNIT NUMBER: 5008

PLANNED HARVEST UNIT MAP

ACRES: 62 VOLUME: 1944 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWN
 PHOTO NUM.: 1179-82 LANDNET INFO TOWNSHIP 69S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 EAGLE TREE (upward arrow)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

RS RUNNING SKYLINE
 SL SLACKLINE

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 09, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5009</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u> <u>4</u> <u>6</u>	VQO <u>PR</u>
Planned acres <u>24</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>752</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>WHS</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-82</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 24 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 24 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 24 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 7 Mixed 17 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the BEHM/GEDNEY PASS viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

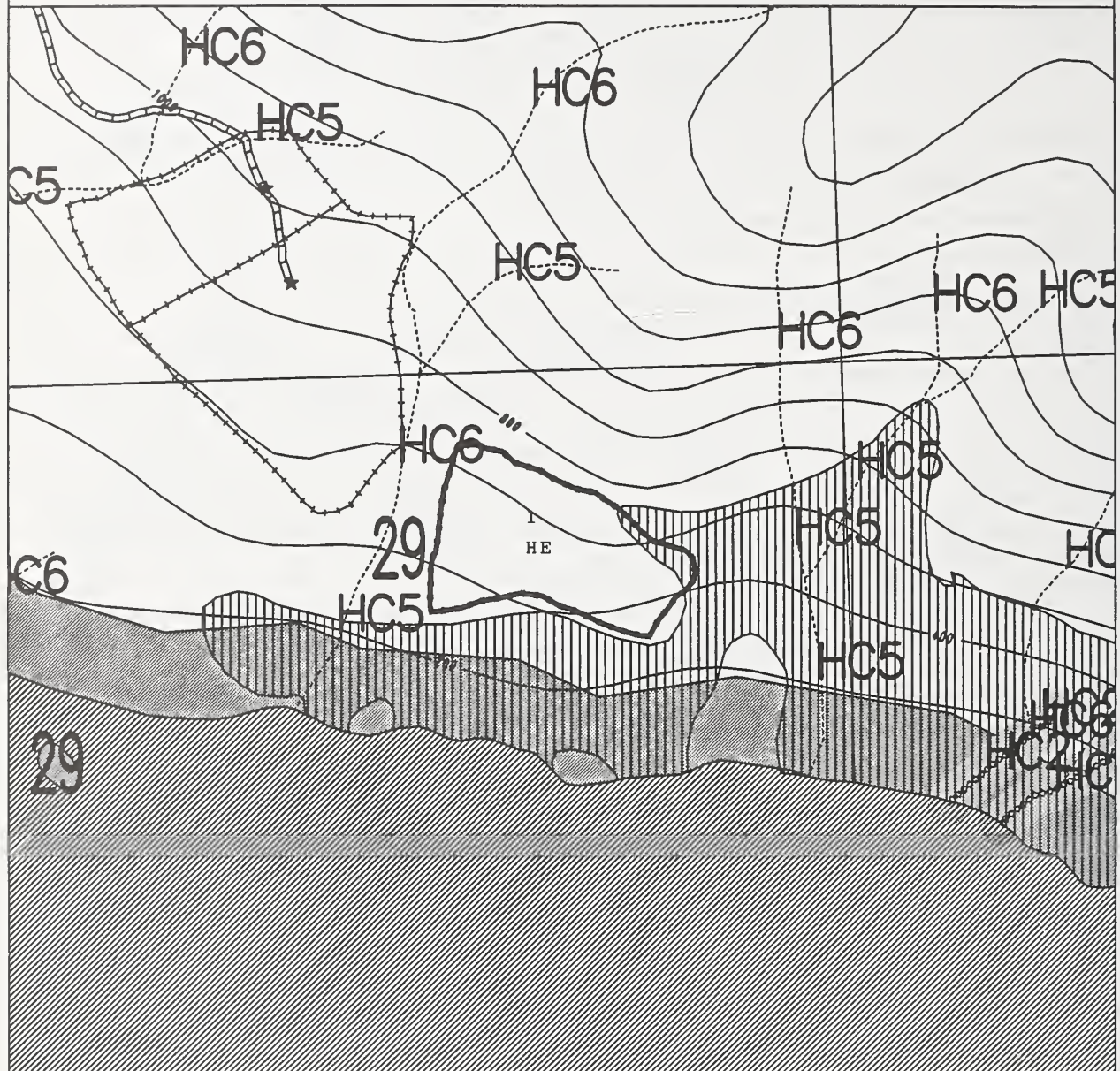
There are no geological mitigation measures anticipated for this unit.

VCU: 7350UNIT NUMBER: 5009

PLANNED HARVEST UNIT MAP

ACRES: 24 VOLUME: 752 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWN
 PHOTO NUM.: 1179-82 LANDNET INFO TOWNSHIP 69S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HE HELICOPTER



SHELTERWOOD



HARVEST



BEACH BUFFER



June 30, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5010</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u> <u>4</u>	VQO <u>PR</u>
Planned acres <u>12</u>		Quad <u>KTND5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>376</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>WHS</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-84</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 12 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 10 acres 800-1200 ft. 2 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 2 acres Medium 10 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 12 Mixed 0 Percent Seen 33 Percent Unseen 67 Aspect North

SOILS

This unit has 12 acres that may require partial or full suspension (BMP 13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction on 0.12 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nest site is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the BEHM/N.HASSLER viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

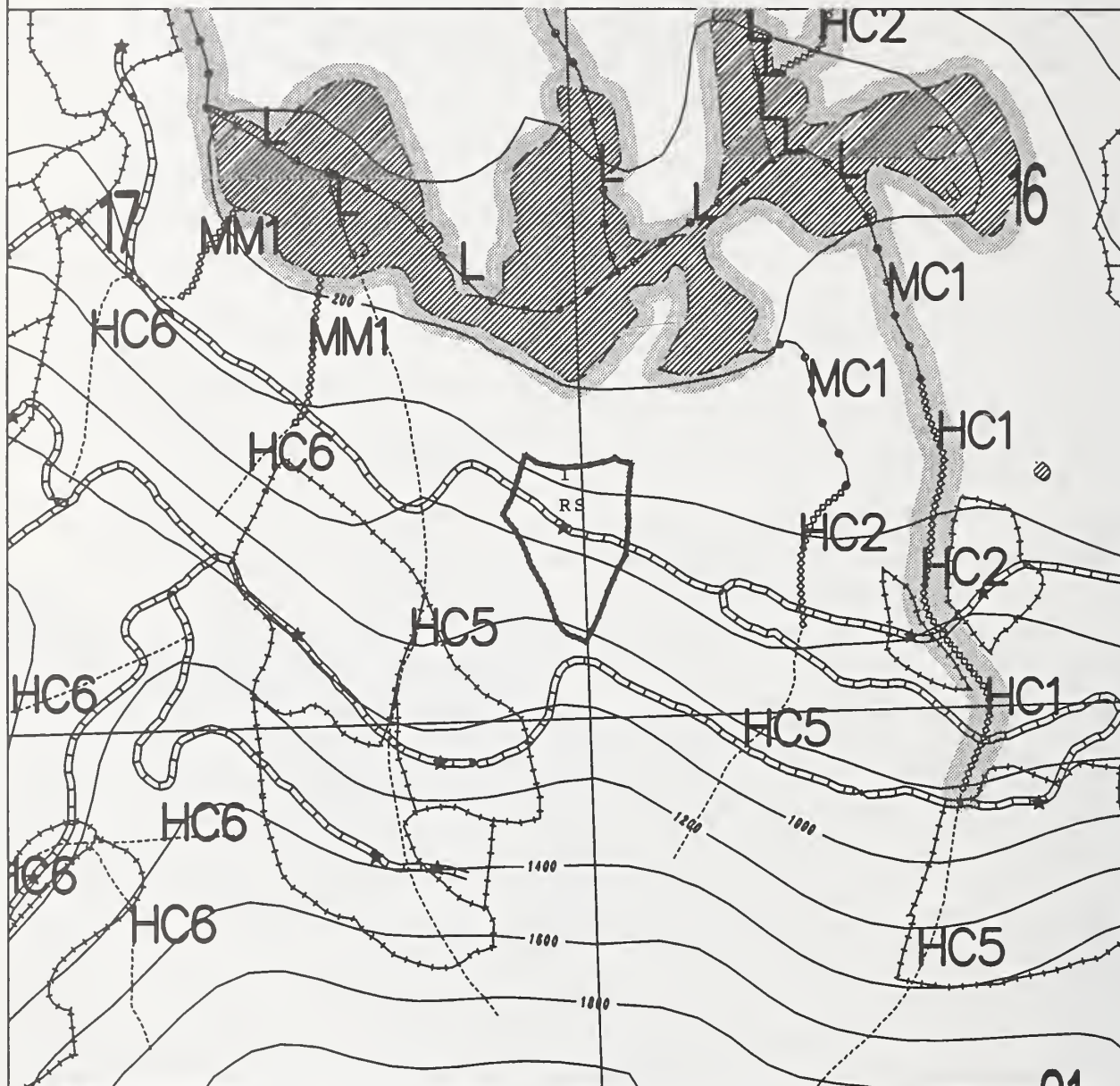
There are no geological mitigation measures anticipated for this unit.

VCU: 7350UNIT NUMBER: 5010

PLANNED HARVEST UNIT MAP

ACRES: 12 VOLUME: 376 MBP QUAD(s): KTND5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-84 LANDNET INFO TOWNSHIP 69S RANGE 90R

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★
 BACLE TREE (up arrow symbol)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:
 RS RUNNING SKYLINE

SHELTERWOOD HARVEST
 BEACH BUFFER

June 30, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5012</u>	No. Settings <u>2</u>	Alternatives considered <u>2</u>	VQO <u>PR</u>
Planned acres <u>11</u>		Quad <u>KTND5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>339</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>WHC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-90</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 1 acres VC5 10 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 11 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 1 acres Medium 4 acres High 6 acres Very High 0 acres
Cedar 0 Hemlock 11 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 11 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 6 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction on 0.12 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

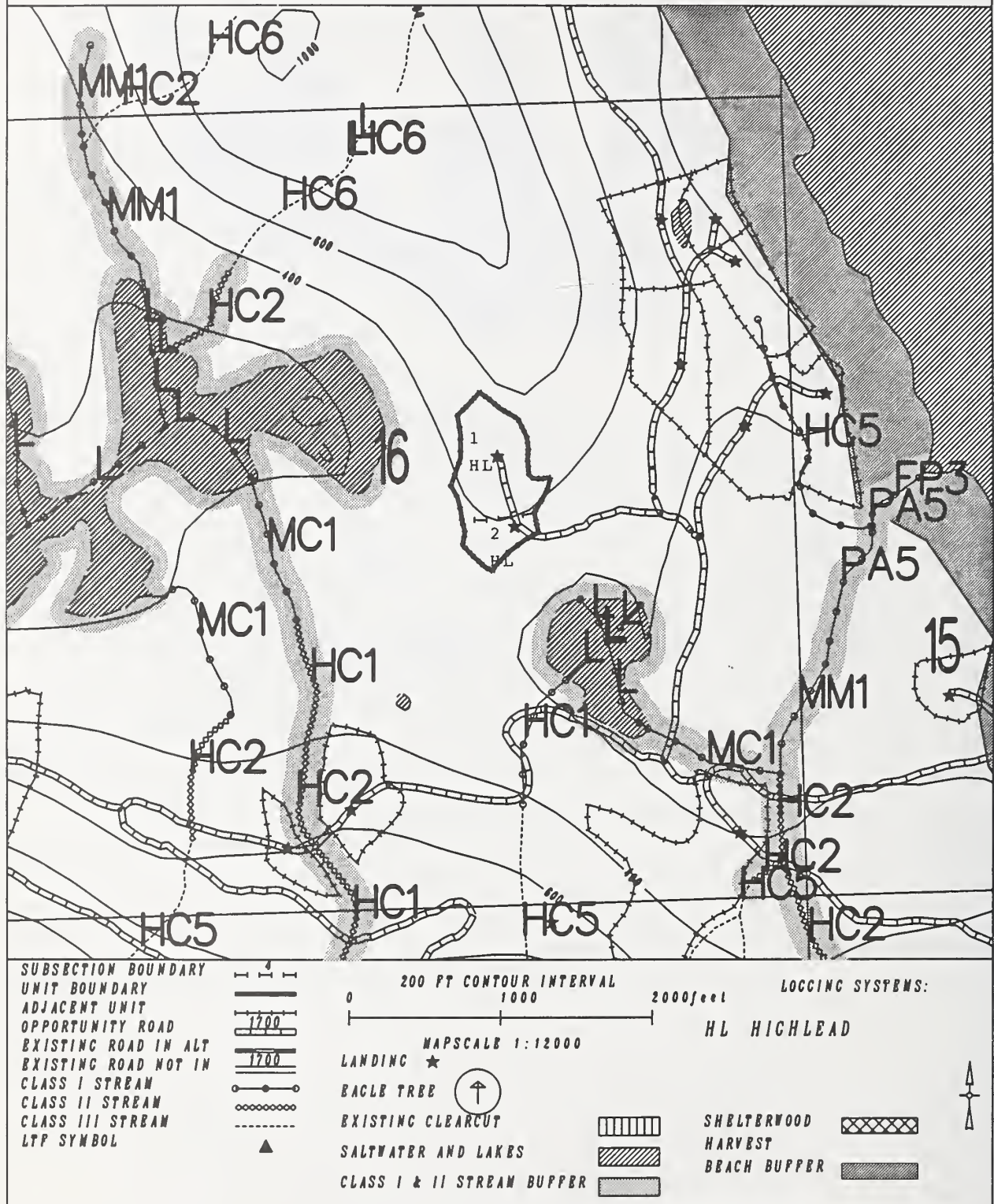
There are no geological mitigation measures anticipated for this unit.

VCU: 7350UNIT NUMBER: 5012

PLANNED HARVEST UNIT MAP

ACRES: 11 VOLUME: 339 MBP QUAD(s): KTND5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-90 LANDNET INFO TOWNSHIP 69S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



June 30, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5014</u>	No. Settings <u>6</u>	Alternatives considered <u>2</u>	VQO <u>R</u>
Planned acres <u>50</u>		Quad <u>KTND5NWS</u>	Windthrow risk <u>2</u>
Estimated volume (mbf) <u>1391</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>CCS</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-90</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 32 acres VC5 18 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 50 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 3 acres Medium 13 acres High 34 acres Very High 0 acres
Cedar 0 Hemlock 43 Mixed 0 Percent Seen 64 Percent Unseen 36 Aspect South

SOILS

This unit has 50 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 28 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Potentially very low volume per acre.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction on 0.03 miles of road
and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 2 streams which have fish passage requirements, of these passes 2 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of R as seen from viewpoints within the BEHM/N.HASSLER viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7350UNIT NUMBER: 5014

PLANNED HARVEST UNIT MAP

ACRES: 50VOLUME: 1391

MBP

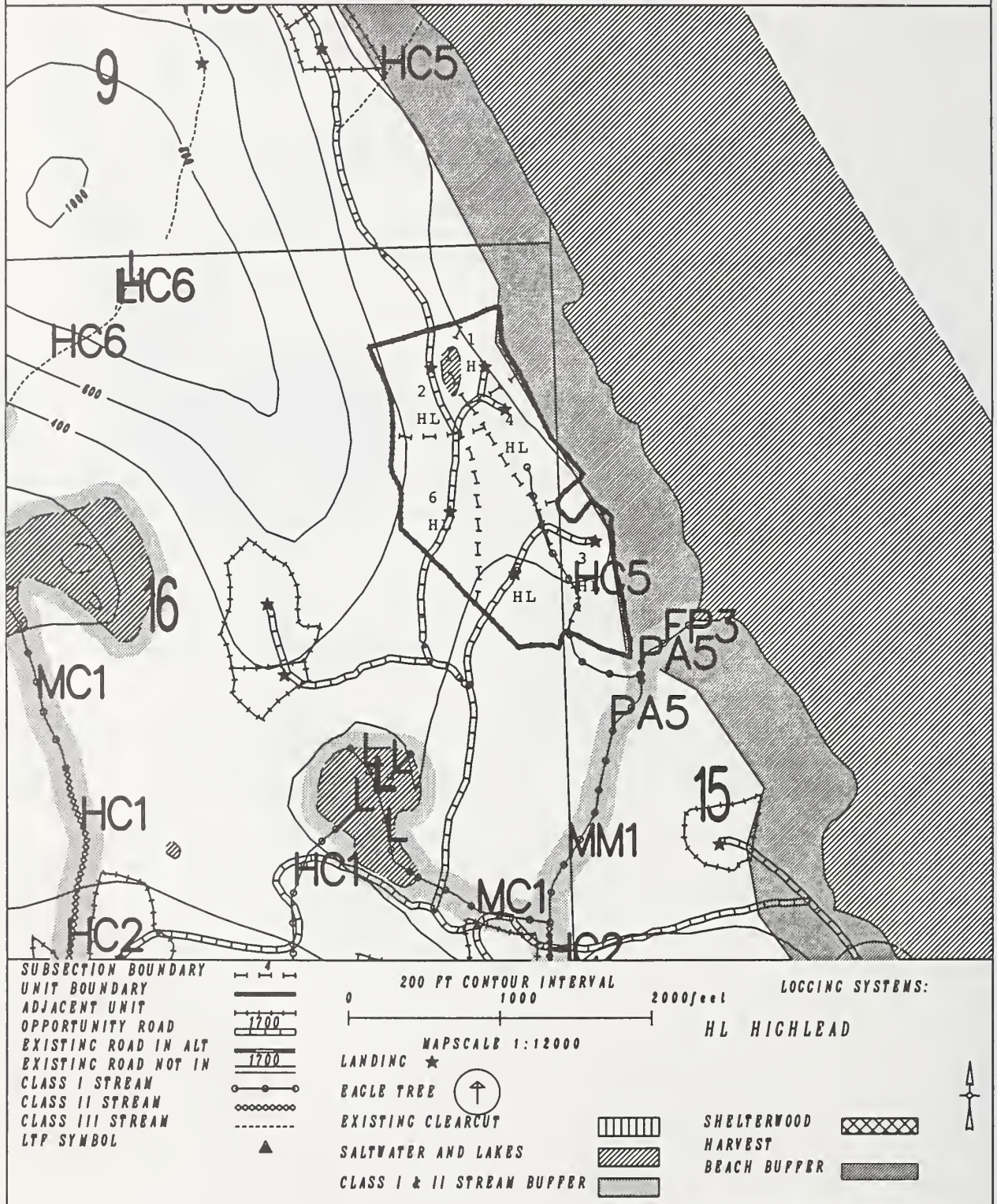
QUAD(s): KTND5QUARTER QUAD(s): NWSPHOTO NUM.: 1179-90

LANDNET INFO

TOWNSHIP

69SRANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 09, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5015</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u>	VQO <u>R</u>
Planned acres <u>4</u>		Quad <u>KTND5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>100</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>CCS</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-90</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 4 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 4 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 4 acres Very High 0 acres
Cedar 0 Hemlock 4 Mixed 0 Percent Seen 25 Percent Unseen 75 Aspect North

SOILS

This unit has 4 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Oversteepened slopes may require full bench construction on 0.28 miles of road
and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of
Bald Eagle nest site. If nestsite is active follow the intra-agency agreement
agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of R as seen from viewpoints within the BEHM/N.HASSLER viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

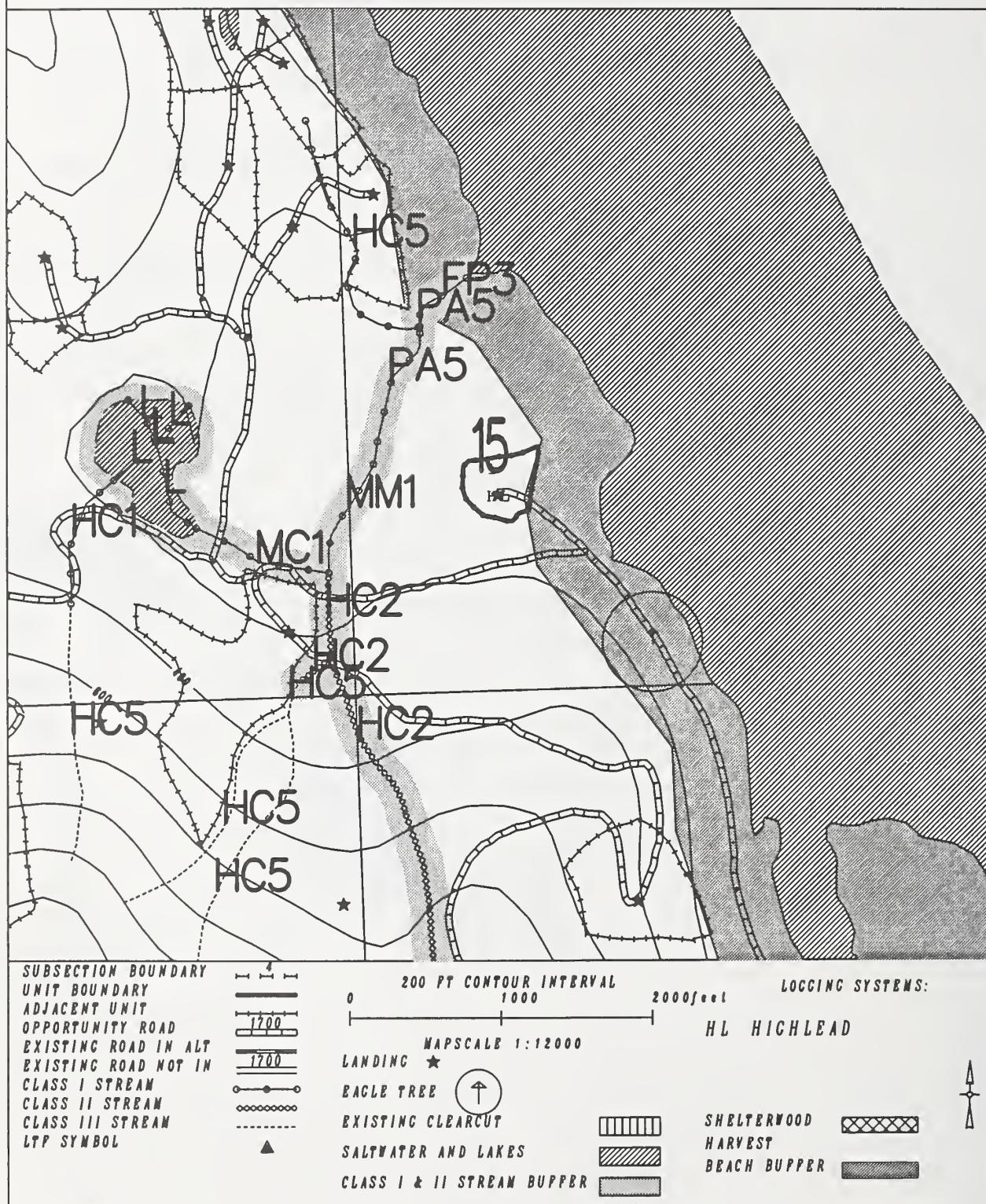
There are no geological mitigation measures anticipated for this unit.

VCU: 7350 UNIT NUMBER: 5015

PLANNED HARVEST UNIT MAP

ACRES: 4 VOLUME: 100 MBP QUAD(s): KTND5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-90 LANDNET INFO TOWNSHIP 69S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 09, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5019</u>	No. Settings <u>6</u>	Alternatives considered <u>2 4 5</u>	VQO <u>PR</u>
Planned acres <u>41</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1289</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>CCD</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-93</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 41 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 33 acres 800-1200 ft. 8 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 27 acres High 0 acres Very High 9 acres
Cedar 0 Hemlock 41 Mixed 0 Percent Seen 63 Percent Unseen 37 Aspect East

SOILS

This unit has 41 acres that may require partial or full suspension (BMP 13.9)
This unit has very high mass movement index soils.
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 18 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction on 0.34 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nest site is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the S.HASSLER PASS viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

ACRES: 41 VOLUME: 1289 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWN
 PHOTO NUM.: 1179-93 LANDNET INFO TOWNSHIP 69S RANGE 90E

[illegible]

CLASS I & II STREAM BUFFER

BEACH BUFFER



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5020</u>	No. Settings <u>2</u>	Alternatives considered <u>2</u> <u>4</u>	VQO <u>PR</u>
Planned acres <u>13</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>408</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>WHS</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-145</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 13 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 13 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 13 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 13 Mixed 0 Percent Seen 92 Percent Unseen 8 Aspect East

SOILS

This unit has 13 acres that may require partial or full suspension (BMP 13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Oversteepened slopes may require full bench construction on 0.09 miles of road
and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of
Bald Eagle nest site. If nestsite is active follow the intra-agency agreement
agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the S.HASSLER PASS viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

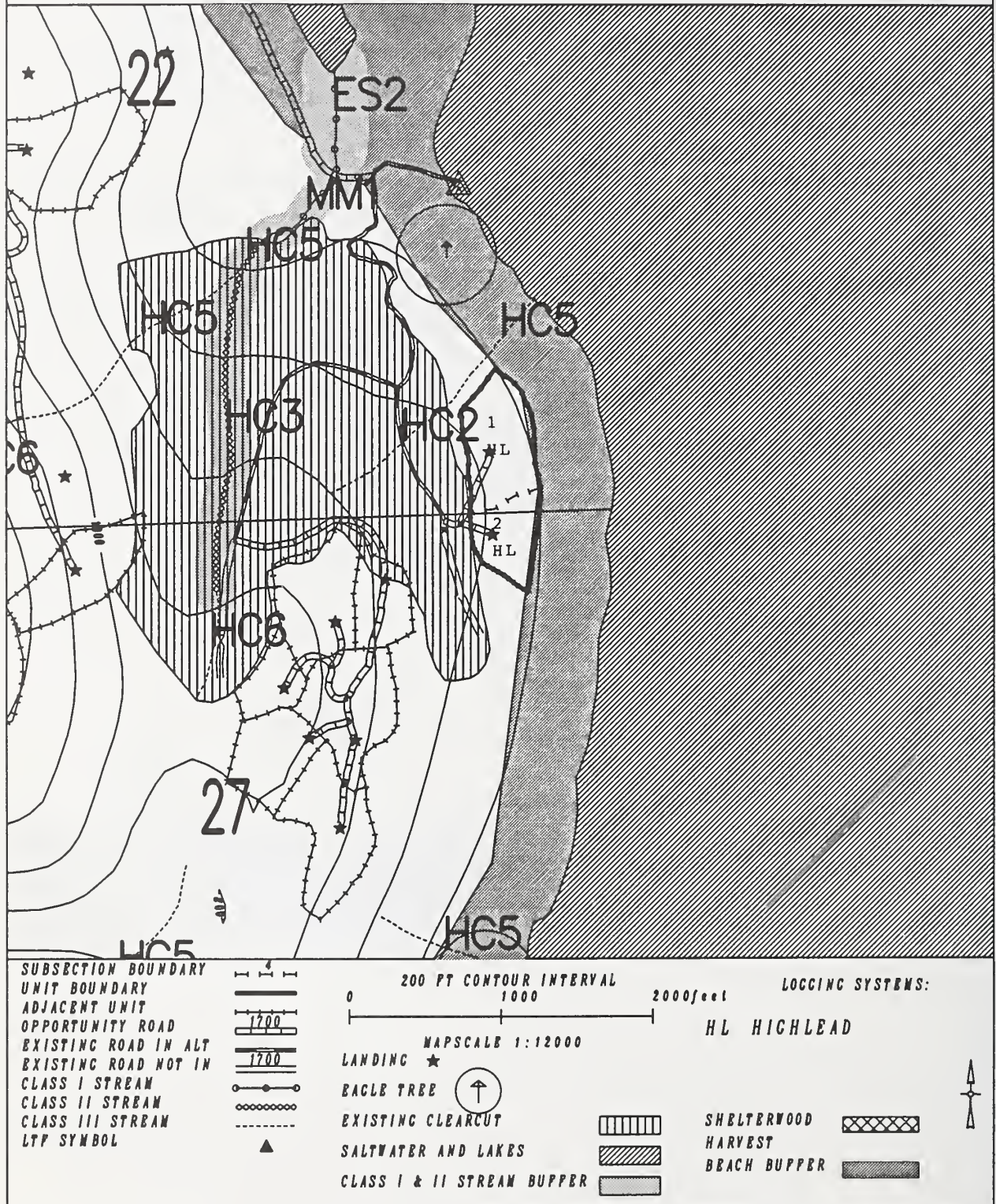
There are no geological mitigation measures anticipated for this unit.

VCU: 7350UNIT NUMBER: 5020

PLANNED HARVEST UNIT MAP

ACRES: 13 VOLUME: 408 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWN
 PHOTO NUM.: 1179-145 LANDNET INFO TOWNSHIP 69S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 09, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5021</u>	No. Settings <u>1</u>	Alternatives considered <u>2 4 5</u>	VQO <u>PR</u>
Planned acres <u>3</u>		Quad <u>KTND5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>75</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>CMC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Shelter wood</u>		1981 Photo <u>1179-90</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 3 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 3 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 3 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 3 Mixed 0 Percent Seen 67 Percent Unseen 33 Aspect North

SOILS

This unit has 3 acres that may require partial or full suspension (BMP 13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the BEHM/N.HASSLER viewshed, approximately a minimum 1/4 mile from shoreline.

There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

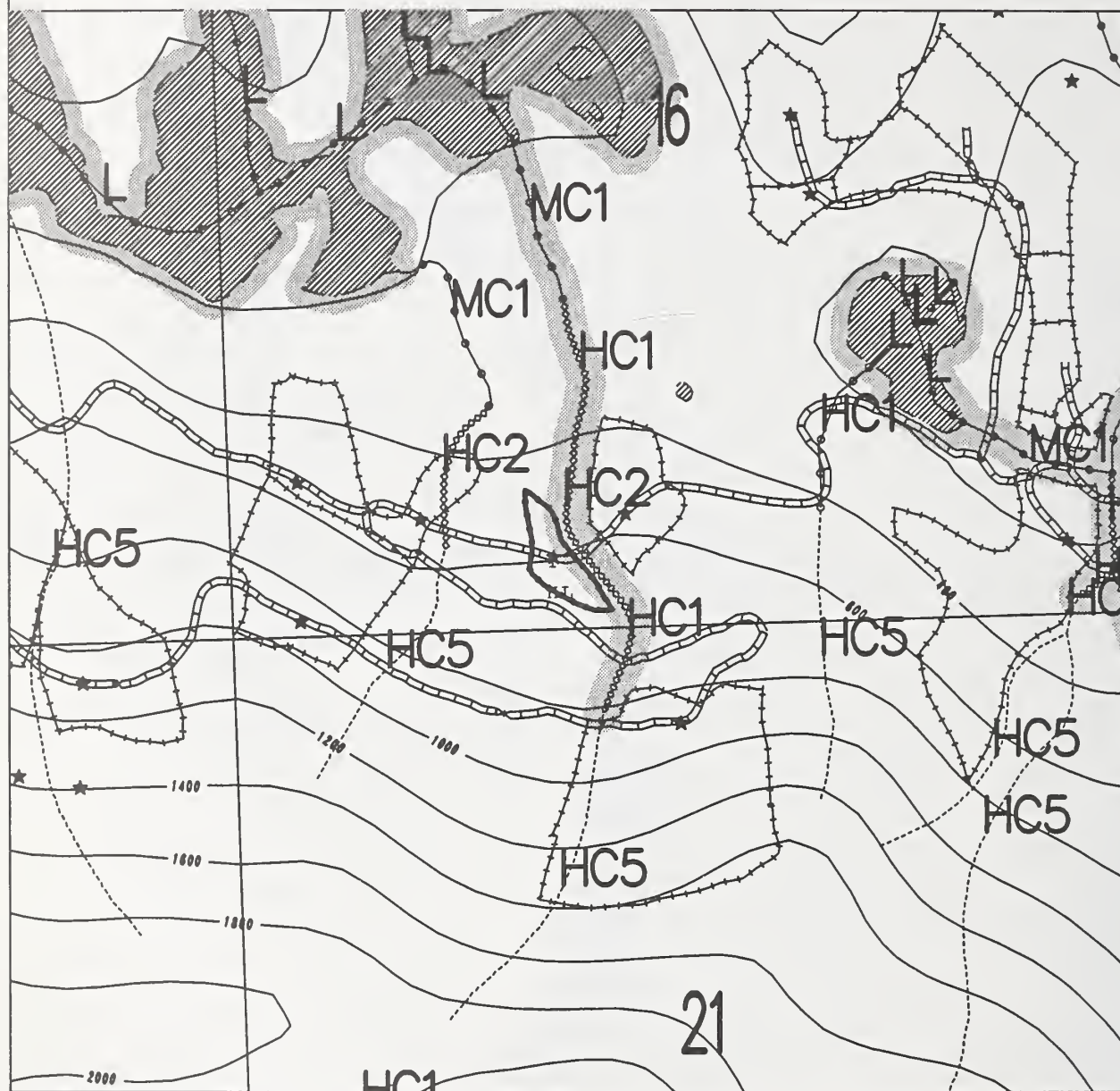
There are no geological mitigation measures anticipated for this unit.

VCU: 7350UNIT NUMBER: 5021

PLANNED HARVEST UNIT MAP

ACRES: 3 VOLUME: 75 MBF QUAD(s): KTND5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-90 LANDNET INFO TOWNSHIP 69S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 BACLE TREE (upward arrow)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGHLEAD

SHELTERWOOD
 HARVEST
 BEACH BUFFER



June 30, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5022</u>	No. Settings <u>1</u>	Alternatives considered <u>2 3 4 5 6</u>	VQO <u>PR</u>
Planned acres <u>7</u>		Quad <u>KTND5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>175</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>WHS</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-90</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 7 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 7 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 7 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 7 Mixed 0 Percent Seen 63 Percent Unseen 38 Aspect North

SOILS

This unit has 7 acres that may require partial or full suspension (BMP 13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are 1 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the BEHM/W.HASSLER viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

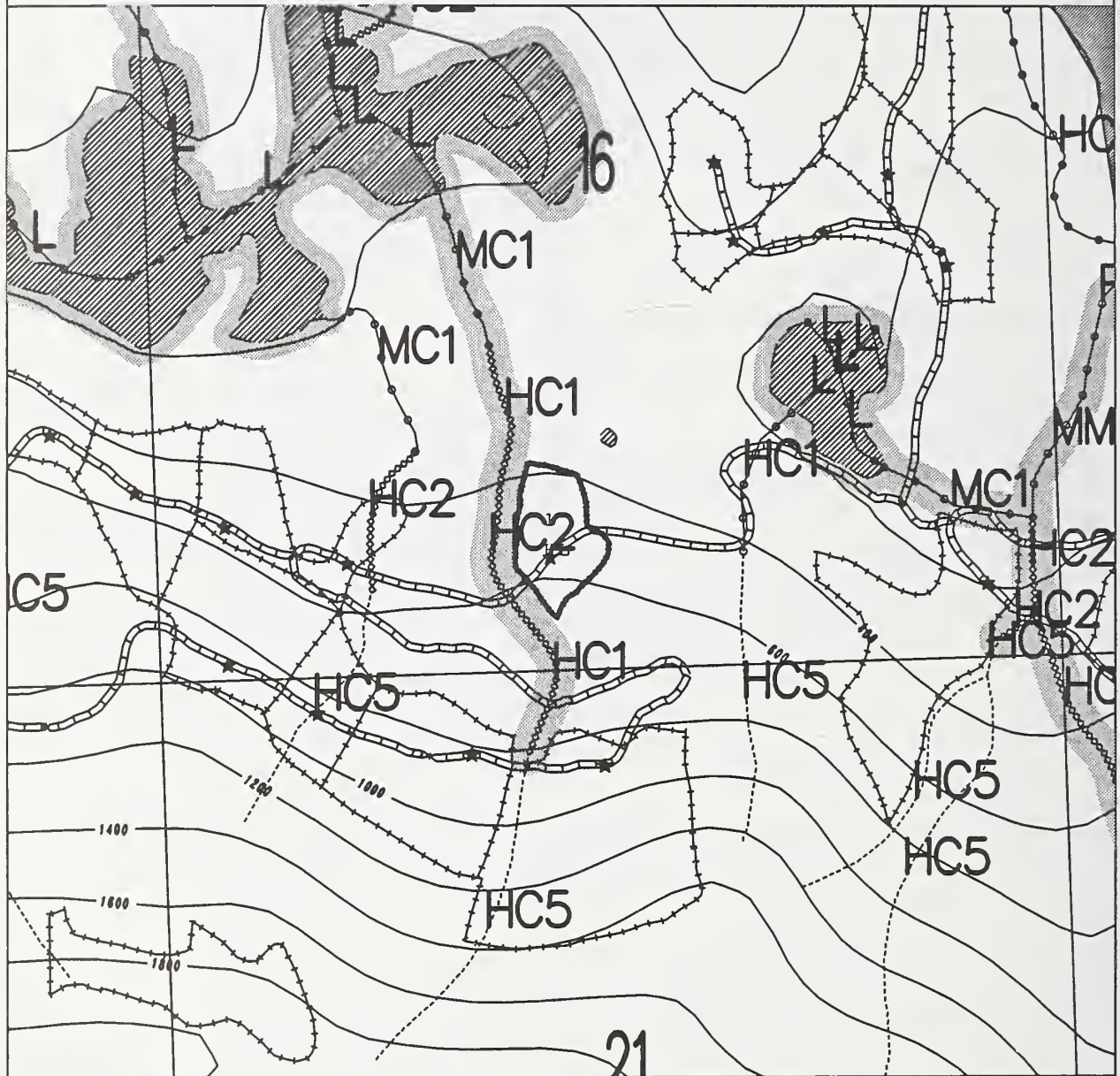
There are no geological mitigation measures anticipated for this unit.

VCU: 7350UNIT NUMBER: 5022

PLANNED HARVEST UNIT MAP

ACRES: 7 VOLUME: 175 MBP QUAD(s): KTND5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-90 LANDNET INFO TOWNSHIP 69S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



0 200 FT CONTOUR INTERVAL 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

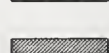
HL HIGH LEAD



SHELTERWOOD

HARVEST

BEACH BUFFER



June 30, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5023</u>	No. Settings <u>1</u>	Alternatives considered <u>2 4</u>	VQO <u>PR</u>
Planned acres <u>101</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>3033</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>WHC</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-79</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 21 acres VC5 80 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 7 acres 800-1200 ft. 27 acres 1200-1500 ft. 35 acres over 1500 ft. 32 acres
Mass movement index: Low 95 acres Medium 0 acres High 6 acres Very High 0 acres
Cedar 0 Hemlock 98 Mixed 3 Percent Seen 100 Percent Unseen 0 Aspect East

SOILS

This unit has 101 acres that may require partial or full suspension (BMP 13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 93 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Maintain diversity within unit by leaving 1-5 acre-sized islands of green trees at a rate of 1 acre of island for every 20 acre harvested. Leave islands must be compatible with logging system and safe working conditions.

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the BEHM/GEDNEY PASS viewshed, approximately a minimum 1/4 mile from shoreline.

There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

ACRES: 101 VOLUME: 3033 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWN
 PHOTO NUM.: 1179-35 LANDNET INFO TOWNSHIP 69S RANGE 90E

The topographic map displays the study area with contour lines indicating elevation. Key features include:

- Contour lines labeled 1200, 2000, and 2200.
- Various labels such as HC5, HC1, and HC2.
- A star symbol labeled '1 HE'.
- A dashed line labeled '5'.
- A solid line labeled '32'.

MAPSCALE 1:12000

BAGLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

THE HELICOPTER

SHELTERWOOD
HARVEST
BEACH BUFFET

July 09, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5024</u>	No. Settings <u>2</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>PR</u>
Planned acres <u>67</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2333</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>CCD</u>
Logging methods <u>SL RS</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-31</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 6 acres VC5 33 acres VC6 28 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 57 acres 800-1200 ft. 4 acres 1200-1500 ft. 0 acres over 1500 ft. 6 acres
Mass movement index: Low 14 acres Medium 12 acres High 41 acres Very High 0 acres
Cedar 0 Hemlock 6 Mixed 61 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has 21 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 41 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 12 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the BEHM/W.HASSLER viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

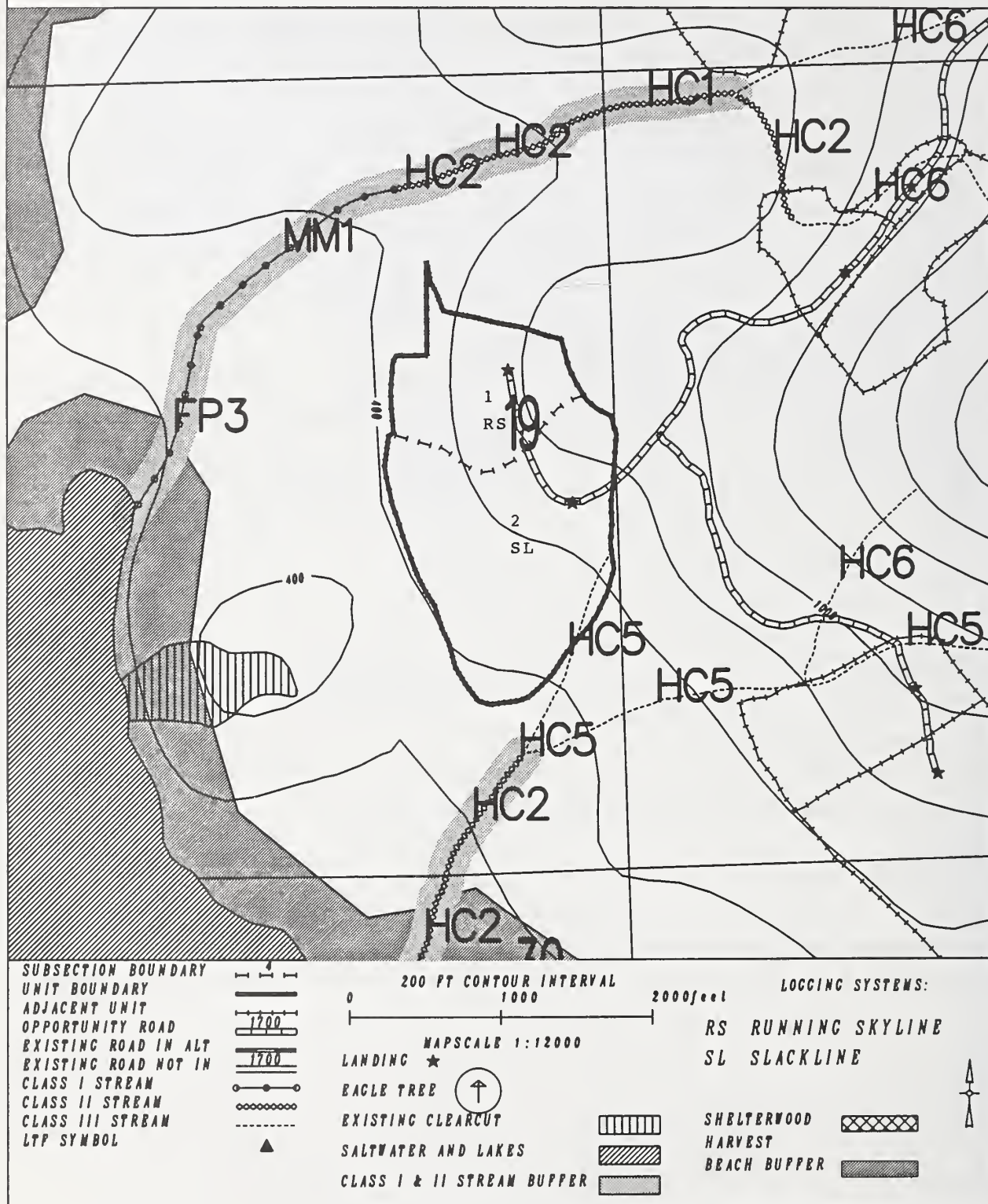
There are no geological mitigation measures anticipated for this unit.

VCU: 7350UNIT NUMBER: 5024

PLANNED HARVEST UNIT MAP

ACRES: 67 VOLUME: 2333 MBP KTND5/KTND6 QUARTER QMS/MS/SWN/SEN
 PHOTO NUM.: 1179-31 LANDNET INFO 69S TOWNSHIP 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



June 30, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5026</u>	No. Settings <u>5</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>PR</u>
Planned acres <u>58</u>		Quad <u>KTND5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1815</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>CMM</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-84</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 1 acres VC5 57 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 28 acres 800-1200 ft. 28 acres 1200-1500 ft. 2 acres over 1500 ft. 0 acres
Mass movement index: Low 8 acres Medium 50 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 56 Mixed 0 Percent Seen 83 Percent Unseen 17 Aspect North

SOILS

This unit has 32 acres that may require partial or full suspension (BMP 13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability. (BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the BEHM/N.HASSLER viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7350UNIT NUMBER: 5026

PLANNED HARVEST UNIT MAP

ACRES: 58VOLUME: 1815

MBP

QUAD(s): KTND5QUARTER QUAD(s): NWS

PHOTO NUM.:

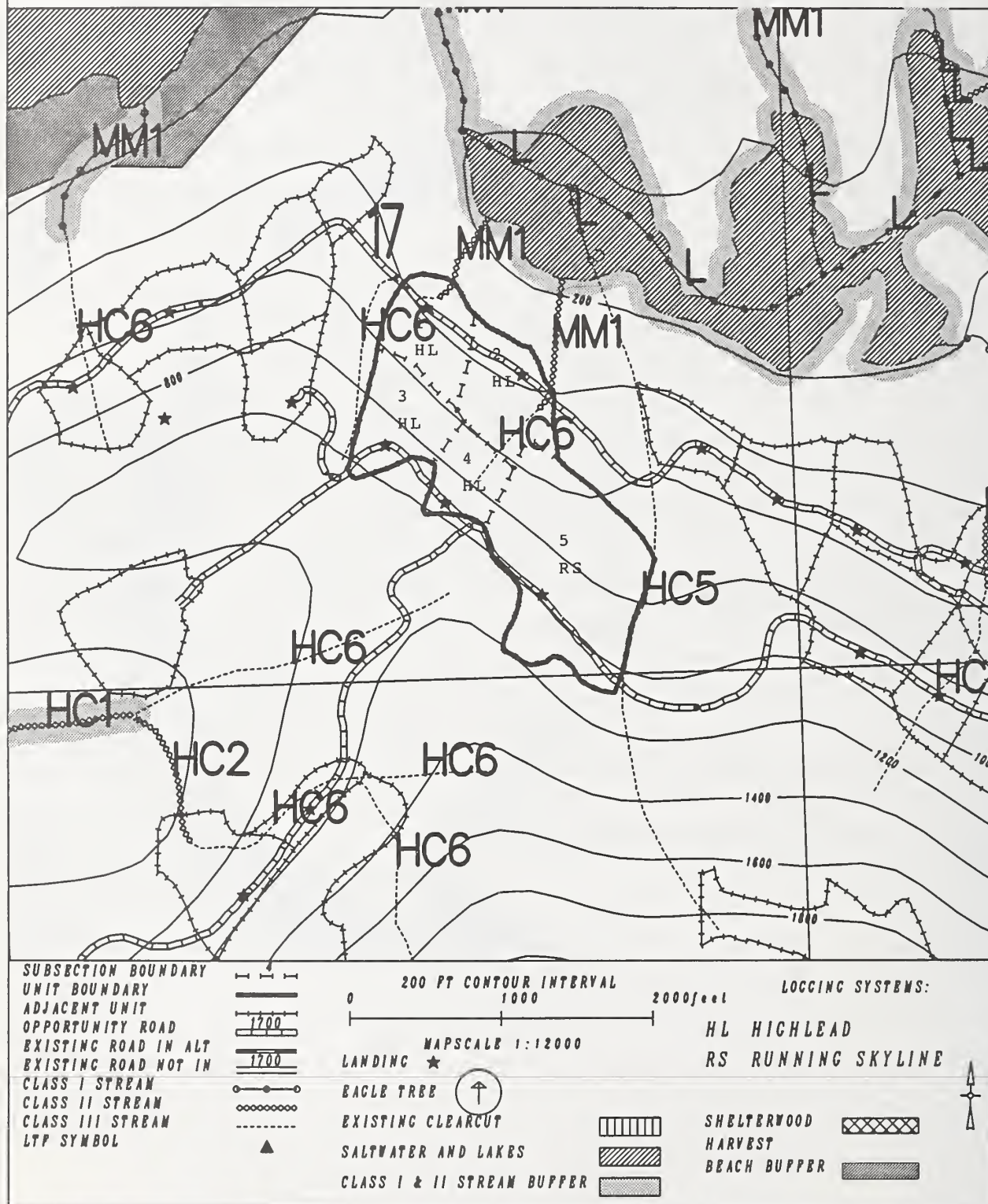
1179-84

LANDNET INFO

TOWNSHIP

69SRANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



June 30, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5027</u>	No. Settings <u>7</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>PR</u>
Planned acres <u>103</u>		Quad <u>KTND5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>3229</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>CMM</u>
Logging methods <u>HL SL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-84</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 103 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 36 acres 800-1200 ft. 48 acres 1200-1500 ft. 18 acres over 1500 ft. 1 acres
Mass movement index: Low 12 acres Medium 91 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 100 Mixed 0 Percent Seen 73 Percent Unseen 27 Aspect North

SOILS

This unit has 26 acres that may require partial or full suspension (BMP 13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 6 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).

FISH/WATERSHED

There are 2 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

Maintain diversity within unit by leaving 1-5 acre-sized islands of green trees at a rate of 1 acre of island for every 20 acre harvested. Leave islands must be compatible with logging system and safe working conditions.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the BEHM/N.HASSLER viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

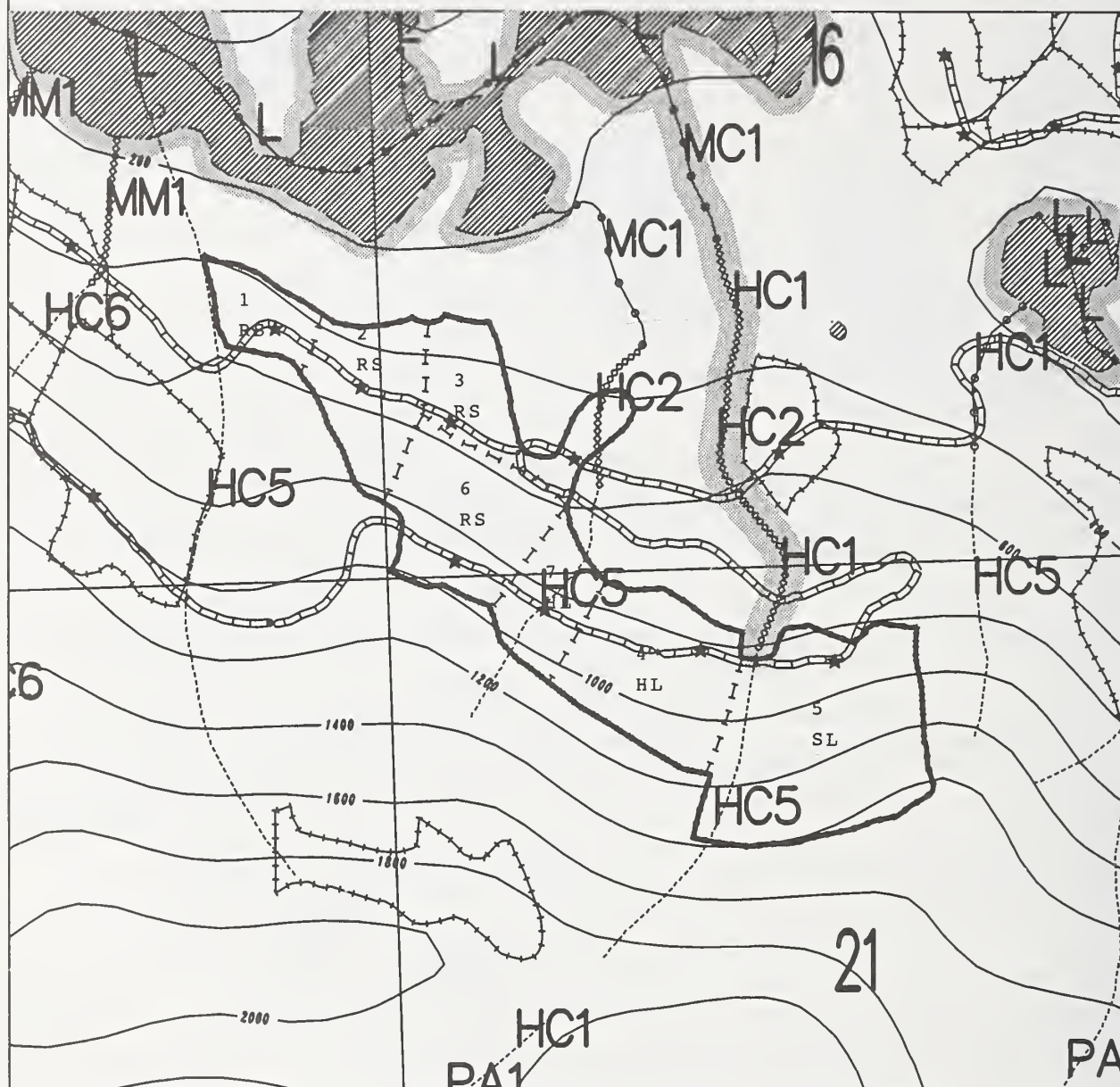
There are no geological mitigation measures anticipated for this unit.

VCU: 7350UNIT NUMBER: 5027

PLANNED HARVEST UNIT MAP

ACRES: 103 VOLUME: 3229 MBP QUAD(s): KTND5 QUARTER QUAD(s): NWS/SWN
 PHOTO NUM.: 1179-84 LANDNET INFO TOWNSHIP 69S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BACLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

RS RUNNING SKYLINE

HL HIGHLEAD

SL SLACKLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



June 30, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5028</u>	No. Settings <u>1</u>	Alternatives considered <u>2 3 4 5 6</u>	VQO <u>PR</u>
Planned acres <u>21</u>		Quad <u>KTND5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>659</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>WHC</u>
Logging methods <u>SL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-91</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 21 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 20 acres 800-1200 ft. 1 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 21 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 21 Mixed 0 Percent Seen 29 Percent Unseen 71 Aspect North

SOILS

This unit has 21 acres that may require partial or full suspension (BMP 13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are 1 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nest site is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the BEHM/N.HASSLER viewshed, approximately a minimum 1/4 mile from shoreline.

There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

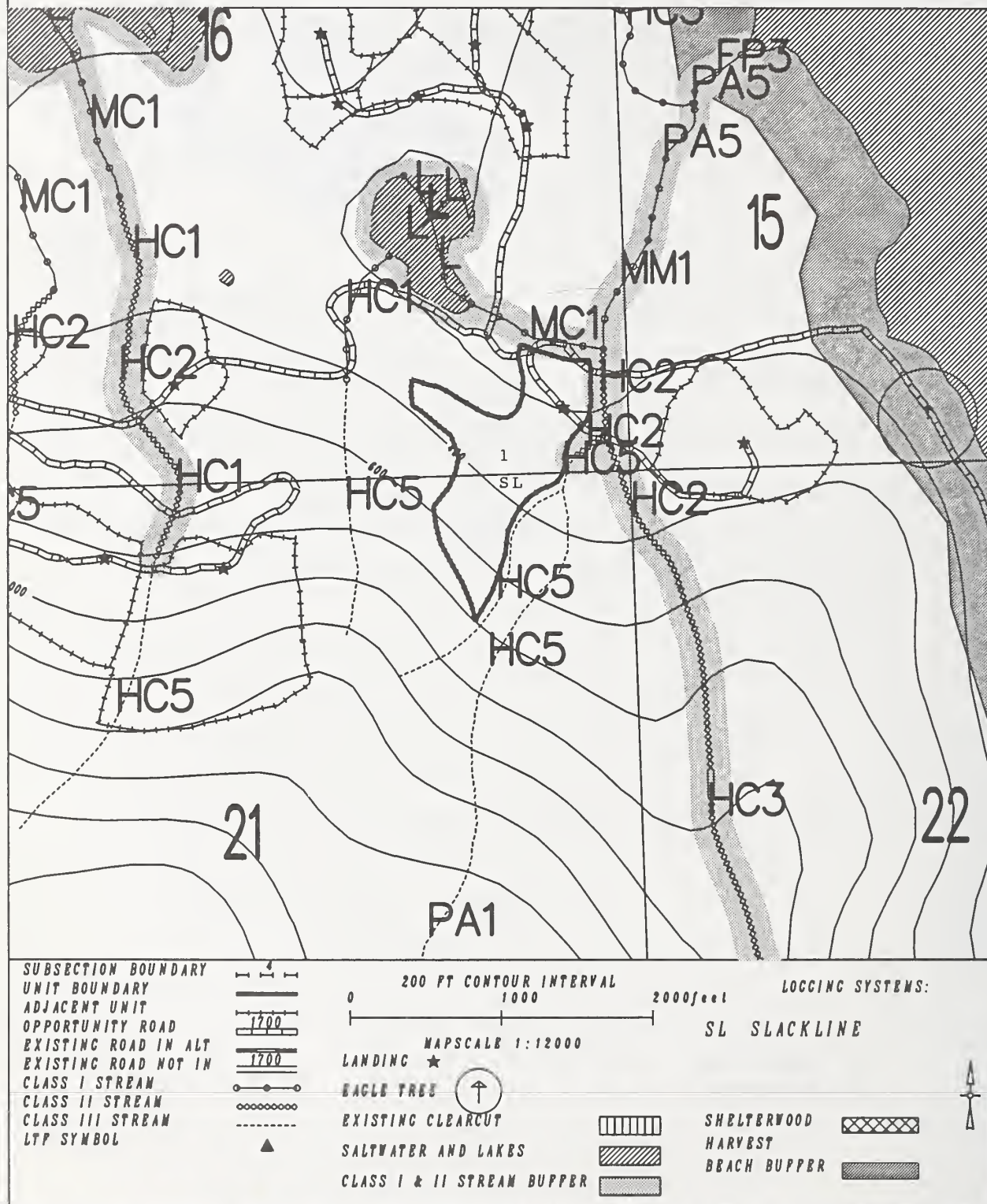
There are no geological mitigation measures anticipated for this unit.

VCU: 7350UNIT NUMBER: 5028

PLANNED HARVEST UNIT MAP

ACRES: 21 VOLUME: 659 MBP QUAD(*): KTND5 QUARTER QUAD(*): NWS
 PHOTO NUM.: 1179-91 LANDNET INFO TOWNSHIP 69S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 09, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5029</u>	No. Settings <u>4</u>	Alternatives considered <u>3</u>	VQO <u>PR</u>
Planned acres <u>32</u>		Quad <u>KTND5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>870</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>WHC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-90</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 21 acres VC5 11 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 32 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 2 acres Medium 17 acres High 13 acres Very High 0 acres
Cedar 0 Hemlock 31 Mixed 0 Percent Seen 6 Percent Unseen 94 Aspect East

SOILS

This unit has 31 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 10 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the BEHM/N.HASSLER viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

ACRES: 32 VOLUME: 870 MBP QUAD(s): KTND5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-90 LANDNET INFO TOWNSHIP 69S RANGE 90E

July 09, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5030</u>	No. Settings <u>1</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>PR</u>
Planned acres <u>17</u>		Quad <u>KTND5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>463</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>CCS</u>
Logging methods <u>SL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-91</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 11 acres VC5 6 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 17 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 2 acres Medium 5 acres High 10 acres Very High 0 acres
Cedar 0 Hemlock 16 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 17 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas. (BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability. (BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 6 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nest site is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

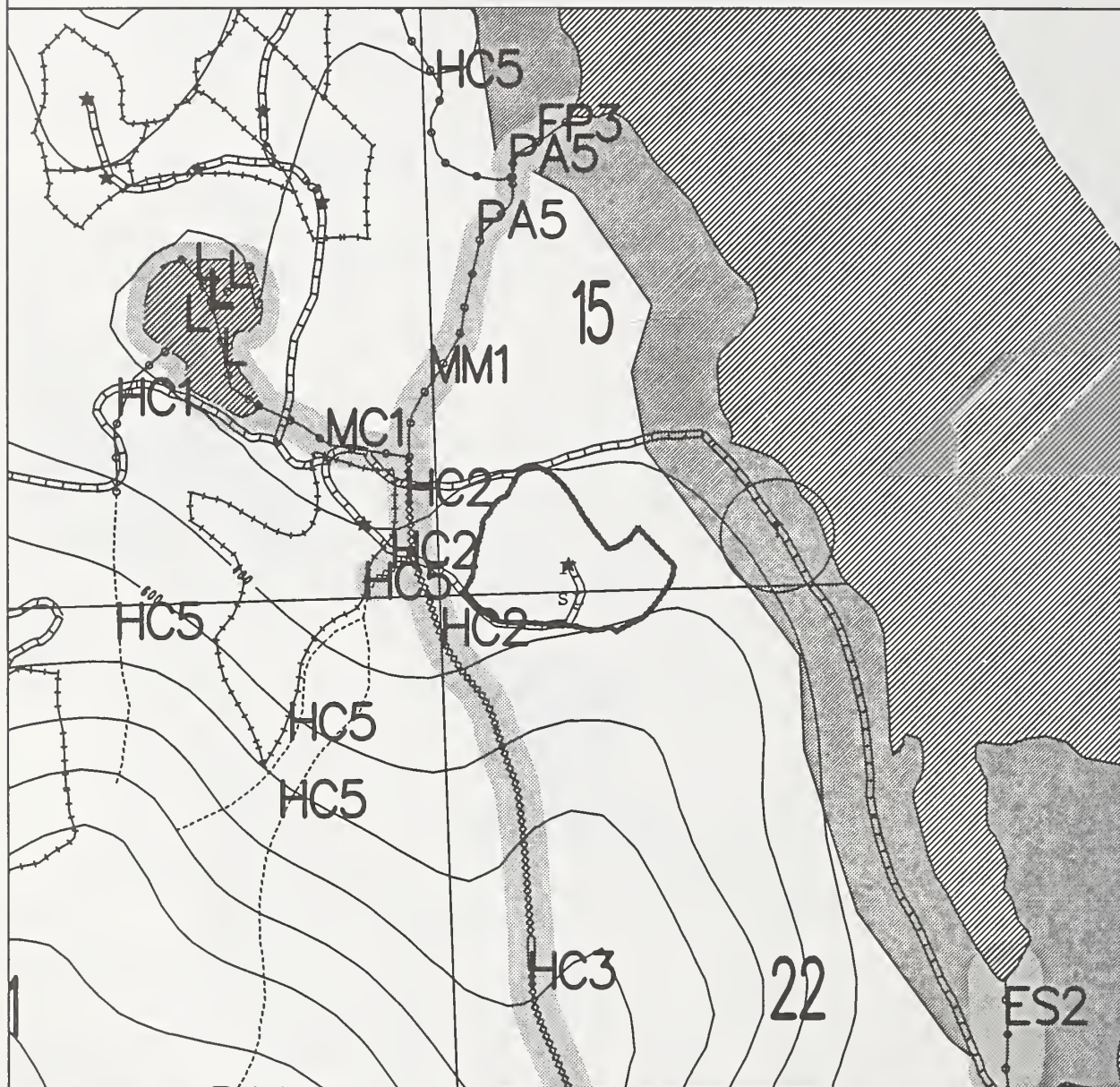
There are no geological mitigation measures anticipated for this unit.

VCU: 7350 UNIT NUMBER: 5030

PLANNED HARVEST UNIT MAP

ACRES: 17 VOLUME: 463 MBP QUAD(s): KTND5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-91 LANDNET INFO TOWNSHIP 69S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 BACLE TREE (upward arrow in circle)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

SL SLACKLINE

SHELTERWOOD
 HARVEST
 BEACH BUFFER



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5031</u>	No. Settings <u>1</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>PR</u>
Planned acres <u>2</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>63</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>WHS</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-145</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 2 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 2 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 2 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 2 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect East

SOILS

This unit has 2 acres that may require partial or full suspension (BMP 13.9)

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nest site is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the S.HASSLER PASS viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

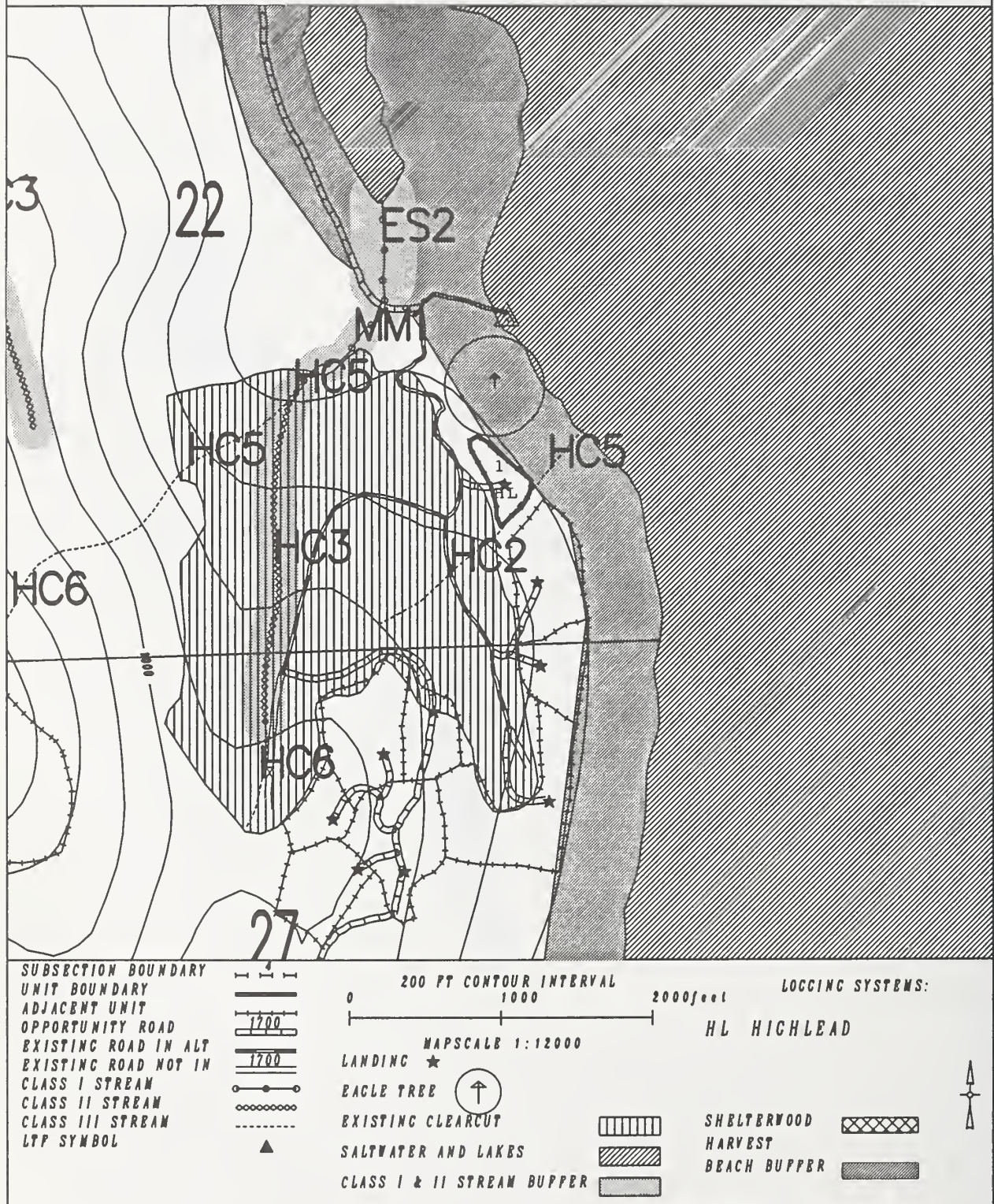
There are no geological mitigation measures anticipated for this unit.

VCU: 7350UNIT NUMBER: 5031

PLANNED HARVEST UNIT MAP

ACRES: 2 VOLUME: 63 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWN
 PHOTO NUM.: 1179-145 LANDNET INFO TOWNSHIP 69S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



June 30, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5032</u>	No. Settings <u>8</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>PR</u>
Planned acres <u>57</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1790</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>CCD</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-145</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 57 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 40 acres 800-1200 ft. 17 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 48 acres High 0 acres Very High 9 acres
Cedar 0 Hemlock 56 Mixed 1 Percent Seen 72 Percent Unseen 28 Aspect East

SOILS

This unit has 12 acres that may require partial or full suspension (BMP 13.9)
This unit has very high mass movement index soils.
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 15 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of
Bald Eagle nest site. If nest site is active follow the intra-agency agreement
agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the S.HASSLER PASS viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

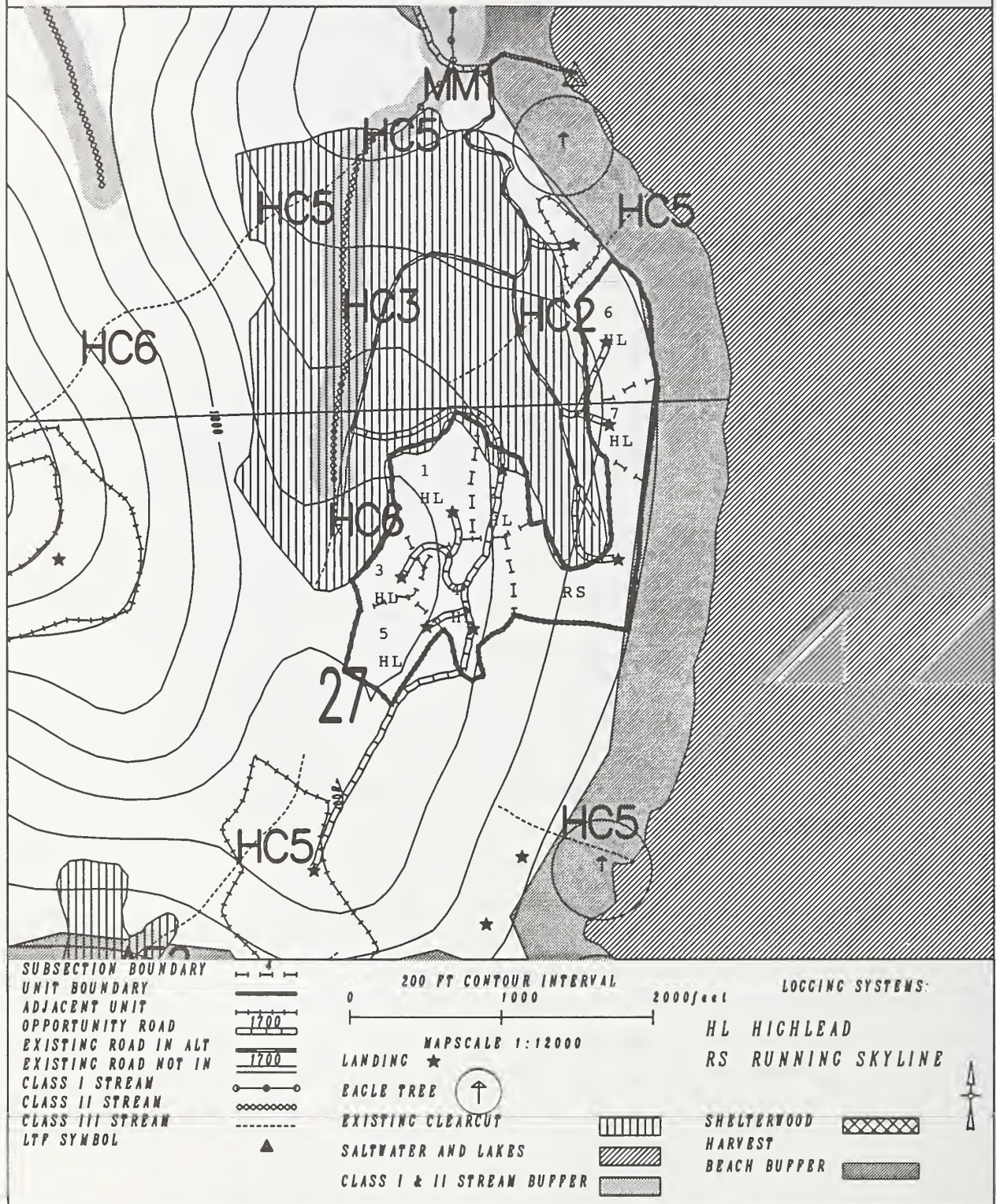
VCU: 7350

UNIT NUMBER: 5032

PLANNED HARVEST UNIT MAP

ACRES: 57 VOLUME: 1790 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWN
 PHOTO NUM.: 1179-93 LANDNET INFO TOWNSHIP 69S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 09, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5034</u>	No. Settings <u>1</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>PR</u>
Planned acres <u>21</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>659</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>WHS</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-93</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 21 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 21 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 21 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 20 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 21 acres that may require partial or full suspension (BMP 13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of
Bald Eagle nest site. If nest site is active follow the intra-agency agreement
agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the BEHM/GEDNEY PASS viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

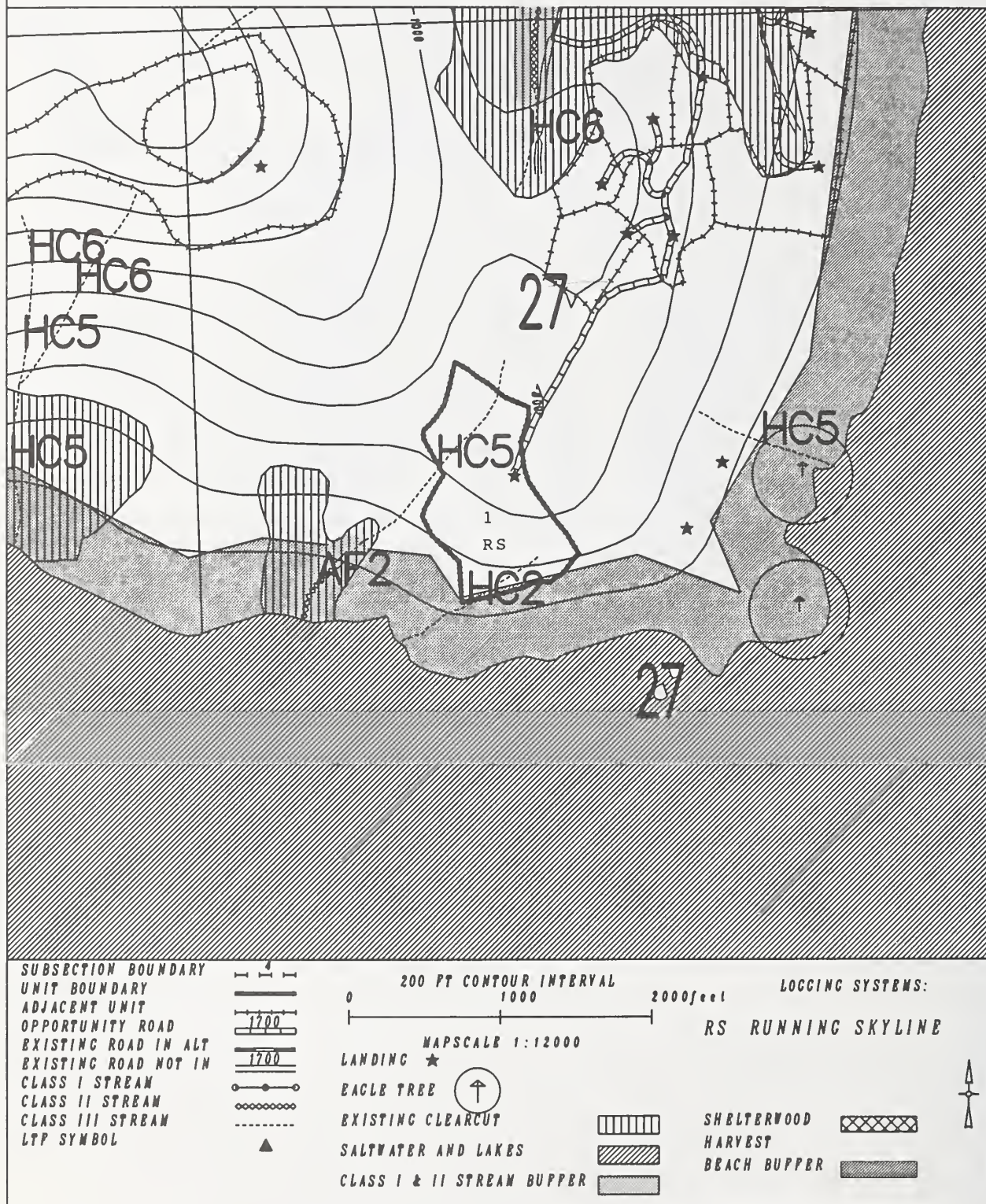
There are no geological mitigation measures anticipated for this unit.

VCU: 7350UNIT NUMBER: 5034

PLANNED HARVEST UNIT MAP

ACRES: 21 VOLUME: 659 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWN
 PHOTO NUM.: 1179-93 LANDNET INFO TOWNSHIP 69S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 09, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5035</u>	No. Settings <u>1</u>	Alternatives considered <u>4 6</u>	VQO <u>PR</u>
Planned acres <u>36</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>976</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>WHS</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Cedar</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-93</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 24 acres VC5 12 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 9 acres over 1500 ft. 27 acres
Mass movement index: Low 7 acres Medium 0 acres High 29 acres Very High 0 acres
Cedar 24 Hemlock 2 Mixed 10 Percent Seen 61 Percent Unseen 39 Aspect East

SOILS

This unit has 36 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 3 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the S.HASSLER PASS viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7350UNIT NUMBER: 5035

PLANNED HARVEST UNIT MAP

ACRES: 36VOLUME: 976

MBP

QUAD(s): KTND5QUARTER QUAD(s): SWN

PHOTO NUM.:

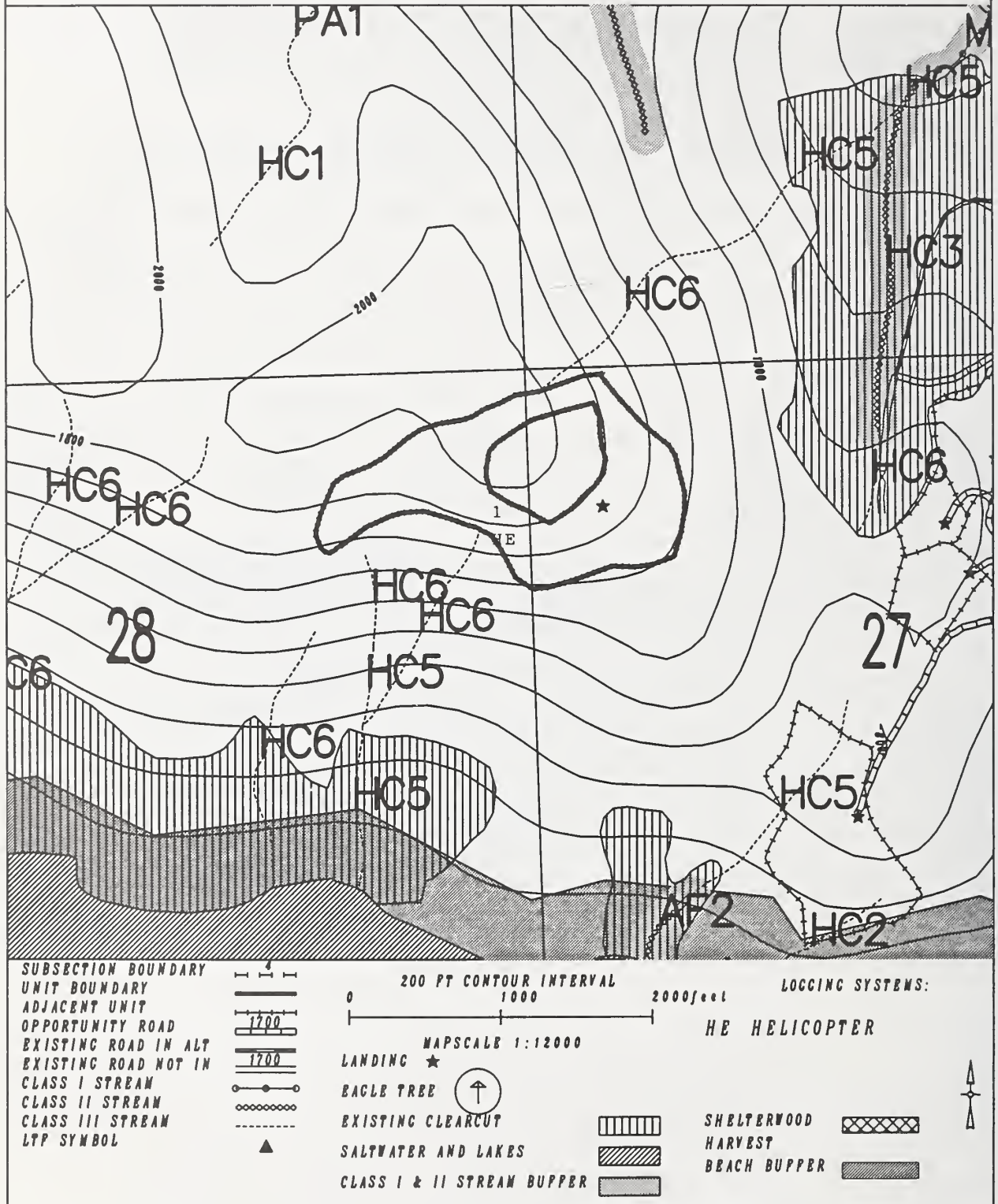
1179-93

LANDNET INFO

TOWNSHIP

69SRANG. 90P

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



June 30, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5037</u>	No. Settings <u>1</u>	Alternatives considered <u>4 6</u>	VQO <u>PR</u>
Planned acres <u>45</u>		Quad <u>KTND6SEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1378</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>WHC</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-202</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 5 acres VC5 40 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 3 acres over 1500 ft. 42 acres
Mass movement index: Low 45 acres Medium 0 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 45 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has 45 acres that may require partial or full suspension (BMP 13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)
This unit contains 40 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the BEHM/GEDNEY PASS viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

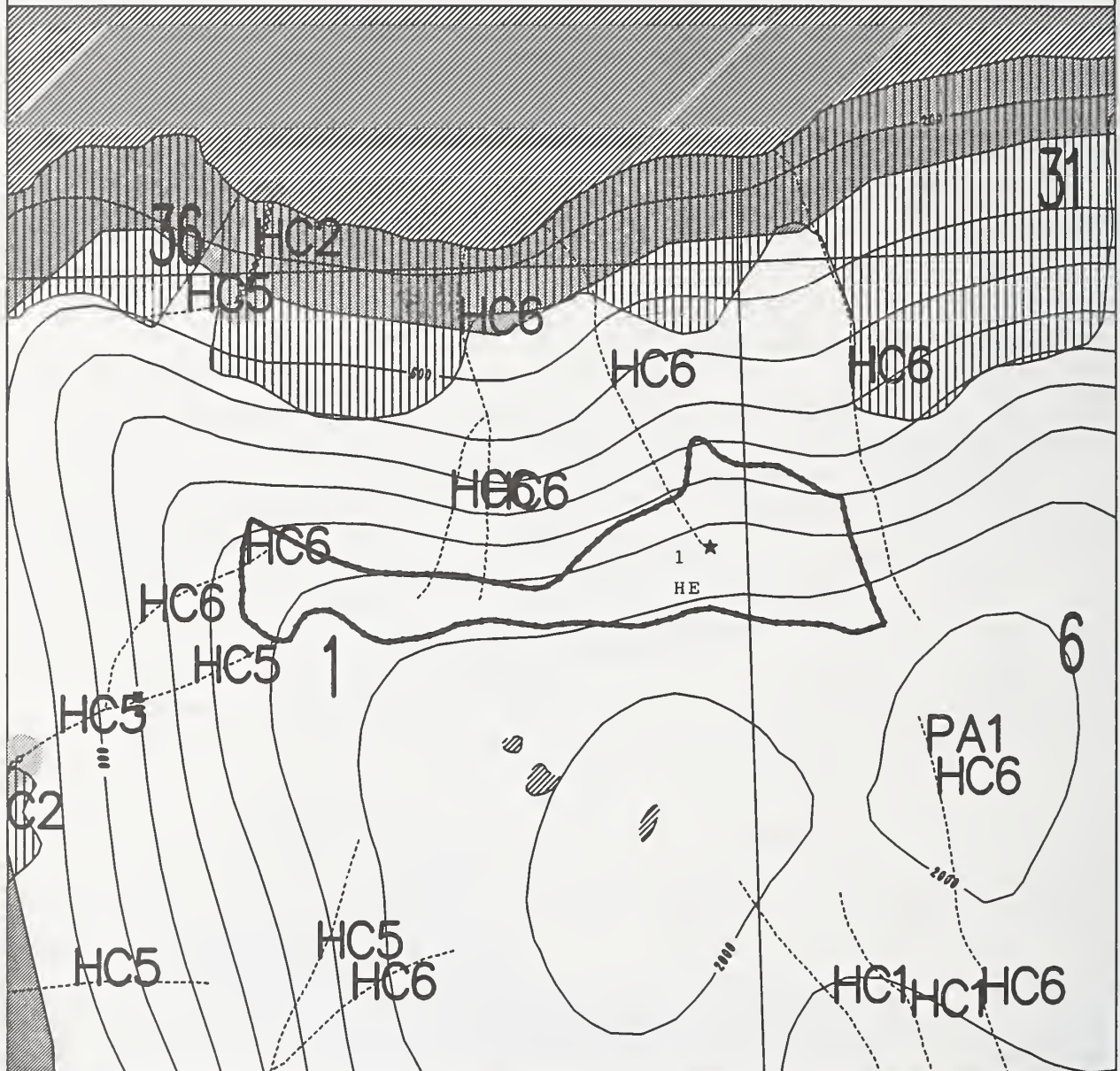
GEOLOGY

There are no geological mitigation measures anticipated for this unit.

PLANNED HARVEST UNIT MAP

ACRES: 45 VOLUME: 1378 MBP QUAD(s): KTND6 QUARTER QUAD(s): SEN
PHOTO NUM.: 1179-202 LANDNET INFO TOWNSHIP 70S RANGE R9E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★
EAGLE TREE (↑)
EXISTING CLEARCUT
SALTWATER AND LAKES
CLASS I & II STREAM BUPPER



LOGGING SYSTEMS:

HE HELICOPTER

SHELTERWOOD
HARVEST
BEACH BUPPER

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5038</u>	No. Settings <u>1</u>	Alternatives considered <u>4 6</u>	VQO <u>PR</u>
Planned acres <u>61</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1843</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>WHC</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-96</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 11 acres VC5 50 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 39 acres 800-1200 ft. 20 acres 1200-1500 ft. 2 acres over 1500 ft. 0 acres
Mass movement index: Low 61 acres Medium 0 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 57 Mixed 4 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has 61 acres that may require partial or full suspension (BMP 13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 39 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Maintain adequate distribution of snags by leaving 0.1 acre-sized patches of green trees within the unit for every 10 acres harvested. Snag patches must be compatible with logging system and safe working conditions.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the BEHM/GEDNEY PASS viewshed, approximately a minimum 1/4 mile from shoreline.

There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

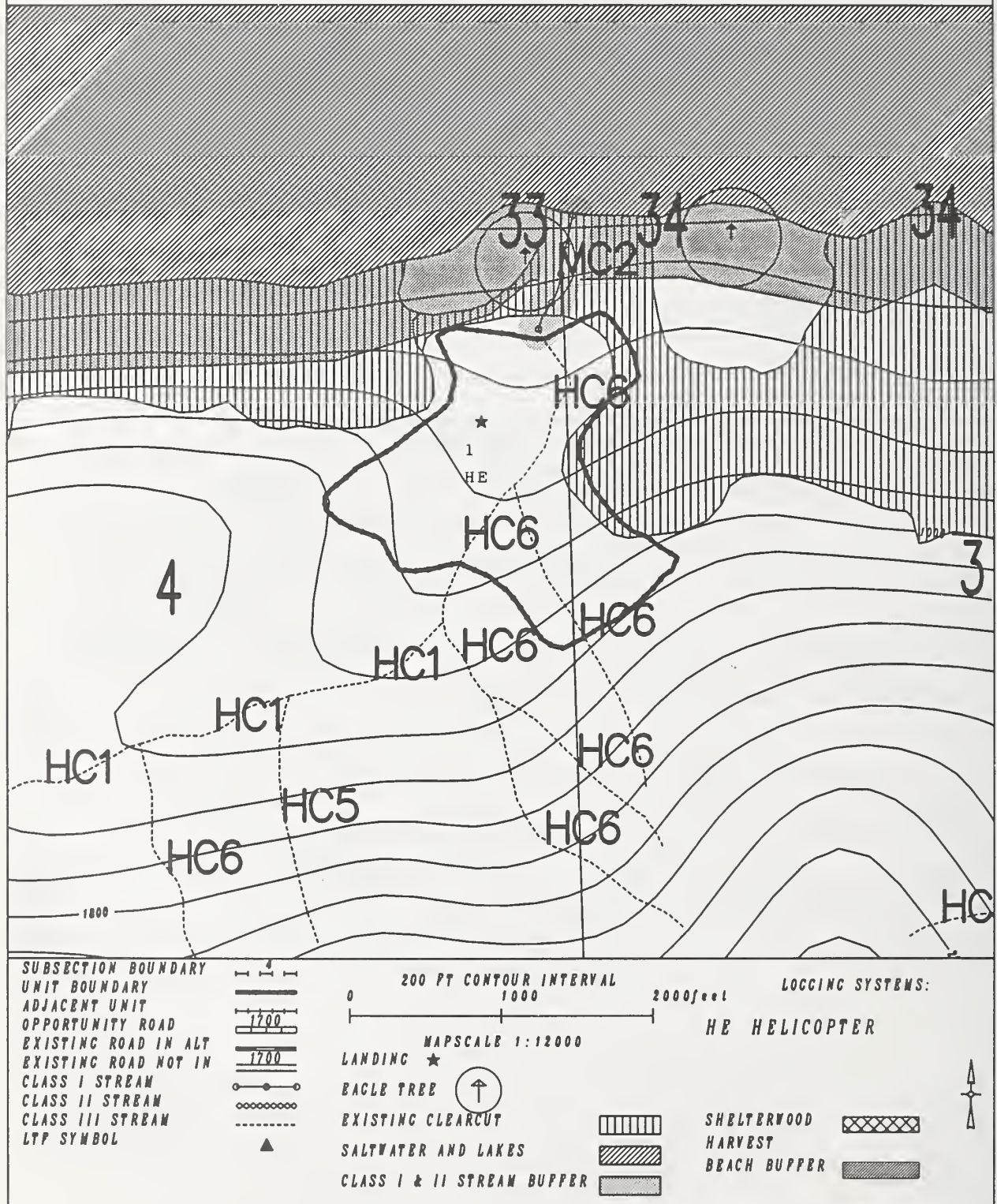
There are no geological mitigation measures anticipated for this unit.

VCU: 7350UNIT NUMBER: 5038

PLANNED HARVEST UNIT MAP

ACRES: 61 VOLUME: 1843 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWN
 PHOTO NUM.: 1179-35 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 09, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5043</u>	No. Settings <u>2</u>	Alternatives considered <u>5</u>	VQO <u>PR</u>
Planned acres <u>28</u>		Quad <u>KTND5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>878</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>WHS</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-84</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 28 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 18 acres 800-1200 ft. 10 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 4 acres Medium 24 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 27 Mixed 0 Percent Seen 50 Percent Unseen 50 Aspect North

SOILS

This unit has 28 acres that may require partial or full suspension (BMP 13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the BEHM/N.HASSLER viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

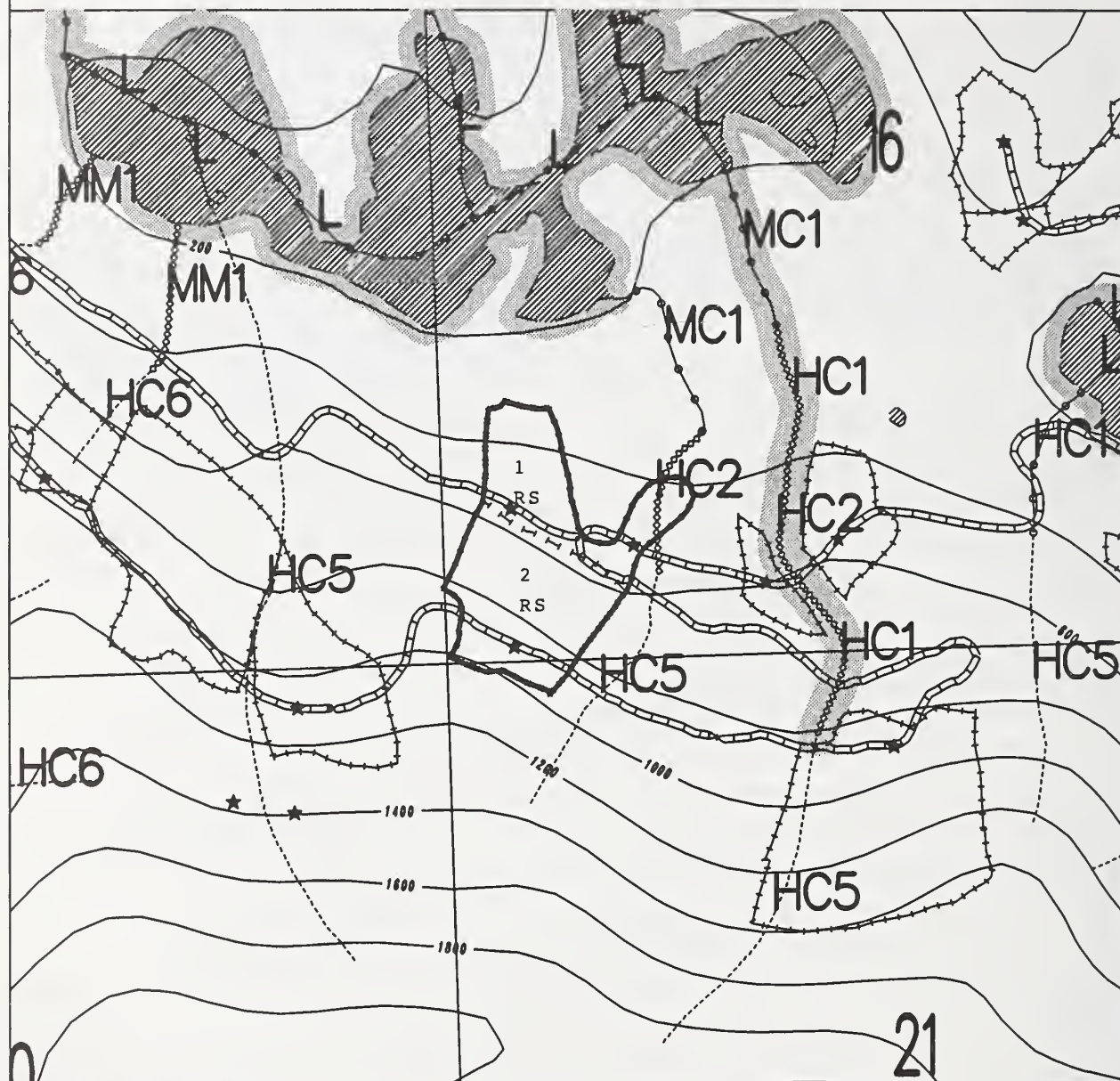
There are no geological mitigation measures anticipated for this unit.

VCU: 7350UNIT NUMBER: 5043

PLANNED HARVEST UNIT MAP

ACRES: 28 VOLUME: 878 MBP QUAD(s): KTND5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-84 LANDNET INFO TOWNSHIP 69S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



0 200 FT CONTOUR INTERVAL 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

RS RUNNING SKYLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



June 30, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5044</u>	No. Settings <u>1</u>	Alternatives considered <u>2 4 5</u>	VQO <u>PR</u>
Planned acres <u>31</u>		Quad <u>KTND5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>972</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>CMM</u>
Logging methods <u>SL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-91</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 31 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 14 acres 1200-1500 ft. 17 acres over 1500 ft. 0 acres
Mass movement index: Low 3 acres Medium 28 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 31 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has 31 acres that may require partial or full suspension (BMP 13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are 2 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the BEHM/N.HASSLER viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7350UNIT NUMBER: 5044

PLANNED HARVEST UNIT MAP

ACRES: 31VOLUME: 972

MBP

QUAD(s): KTND5QUARTER QUAD(s): NWS

PHOTO NUM.:

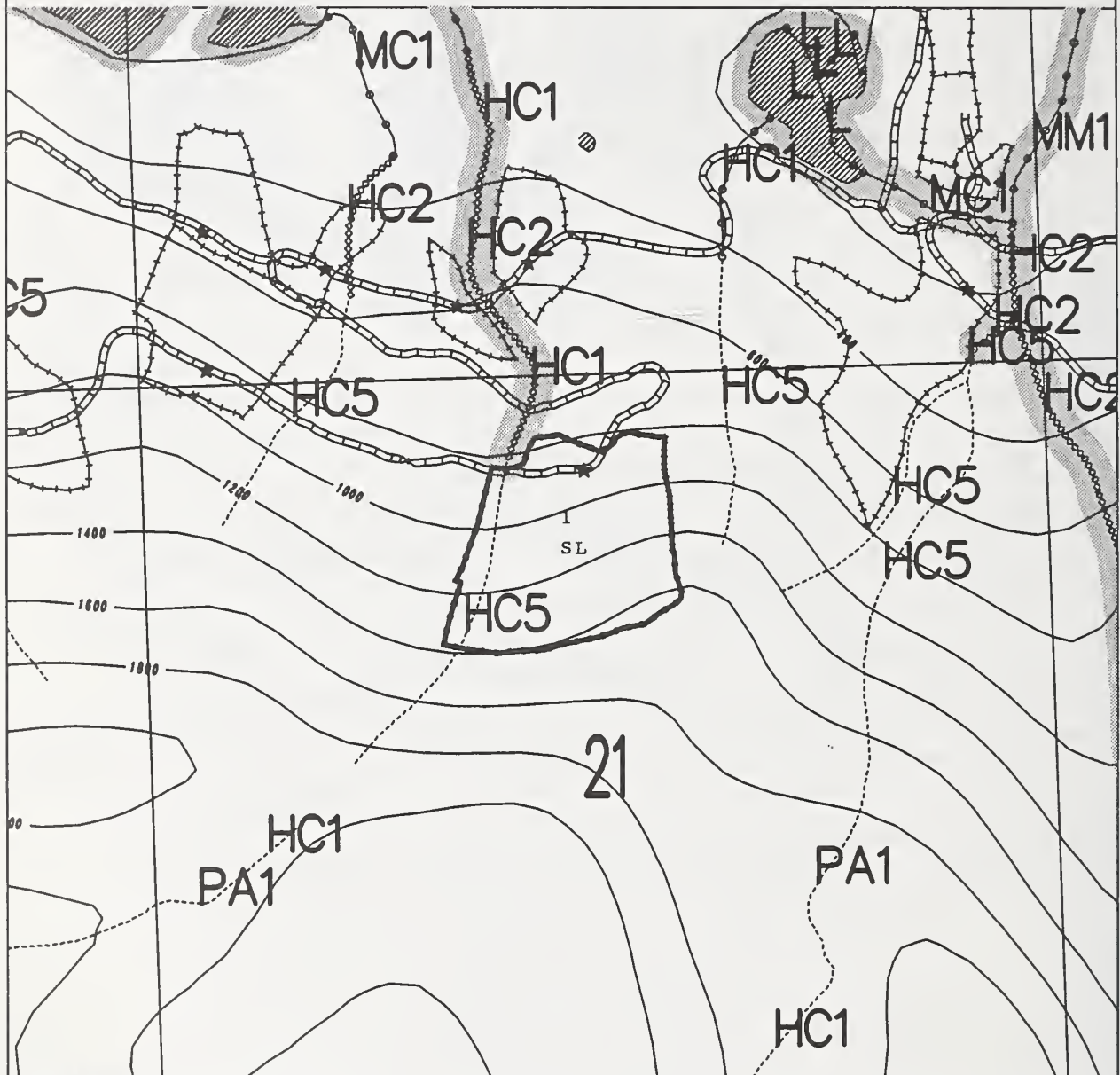
1179-91

LANDNET INFO

TOWNSHIP

69SRANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE ↑

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

SL SLACKLINE



SHELTERWOOD

HARVEST

BEACH BUFFER



June 30, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5045</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>PR</u>
Planned acres <u>5</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>157</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>WHS</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-14</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 5 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 5 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 5 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 5 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect East

SOILS

This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nest site is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

ACRES: 5 VOLUME: 157 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWN
 PHOTO NUM.: 1179-14 LANDNET INFO TOWNSHIP 69S RANGE 90E

MAPSCALE 1:12000

LANDING ★

EAGLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUPPER

LOGGING SYSTEMS:

HL HIGHLEAD

SHELTERWOOD

HARVEST

BEACH BUFFER



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5048</u>	No. Settings <u>3</u>	Alternatives considered <u>5</u>	VQO <u>R</u>
Planned acres <u>28</u>		Quad <u>KTND5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>725</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>CCS</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-91</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 24 acres VC5 4 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 28 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 1 acres Medium 0 acres High 27 acres Very High 0 acres
Cedar 0 Hemlock 27 Mixed 0 Percent Seen 62 Percent Unseen 38 Aspect East

SOILS

This unit has 27 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 16 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nest site is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of R as seen from viewpoints within the BEHM/N.HASSLER viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7350UNIT NUMBER: 5048

PLANNED HARVEST UNIT MAP

ACRES: 28VOLUME: 725

MBP

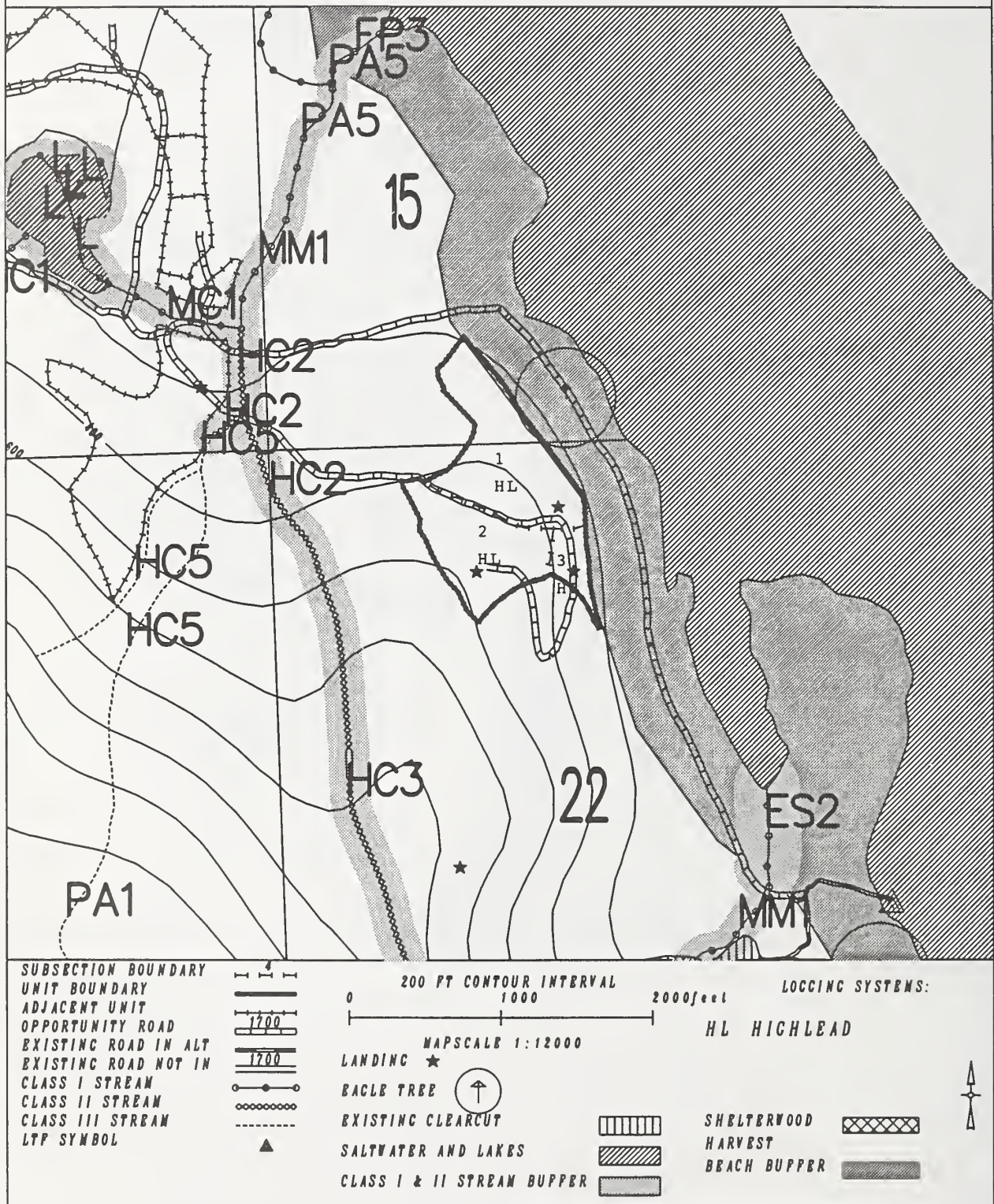
QUAD(s): KTND5QUARTER QUAD(s): NWSPHOTO NUM.: 1179-91

LANDNET INFO

TOWNSHIP

69SRANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 09, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5053</u>	No. Settings <u>1</u>	Alternatives considered <u>2 4</u>	VQO <u>PR</u>
Planned acres <u>14</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>407</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>CCS</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-91</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 5 acres VC5 9 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 8 acres 800-1200 ft. 6 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 1 acres Medium 4 acres High 9 acres Very High 0 acres
Cedar 0 Hemlock 14 Mixed 0 Percent Seen 85 Percent Unseen 15 Aspect East

SOILS

This unit has 14 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nestsite is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the S.HASSLER PASS viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

ACRES: 14 VOLUME: 407 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWN
 PHOTO NUM.: 1179-91 LANDNET INFO TOWNSHIP 69S RANGE 90E

[illegible]

July 09, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5054</u>	No. Settings <u>2</u>	Alternatives considered <u>4</u>	VQO <u>PR</u>
Planned acres <u>13</u>		Quad <u>KTND5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>350</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>CCS</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-91</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 9 acres VC5 4 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 13 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 13 acres Very High 0 acres
Cedar 0 Hemlock 13 Mixed 0 Percent Seen 92 Percent Unseen 8 Aspect East

SOILS

This unit has 13 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 7 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nestsite is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the S.HASSLER PASS viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7350

UNIT NUMBER: 5054

PLANNED HARVEST UNIT MAP

ACRES: 13

VOLUME: 350

MBP

QUAD(s): KTND5

QUARTER QUAD(s): NWS

PHOTO NUM.: 1179-91

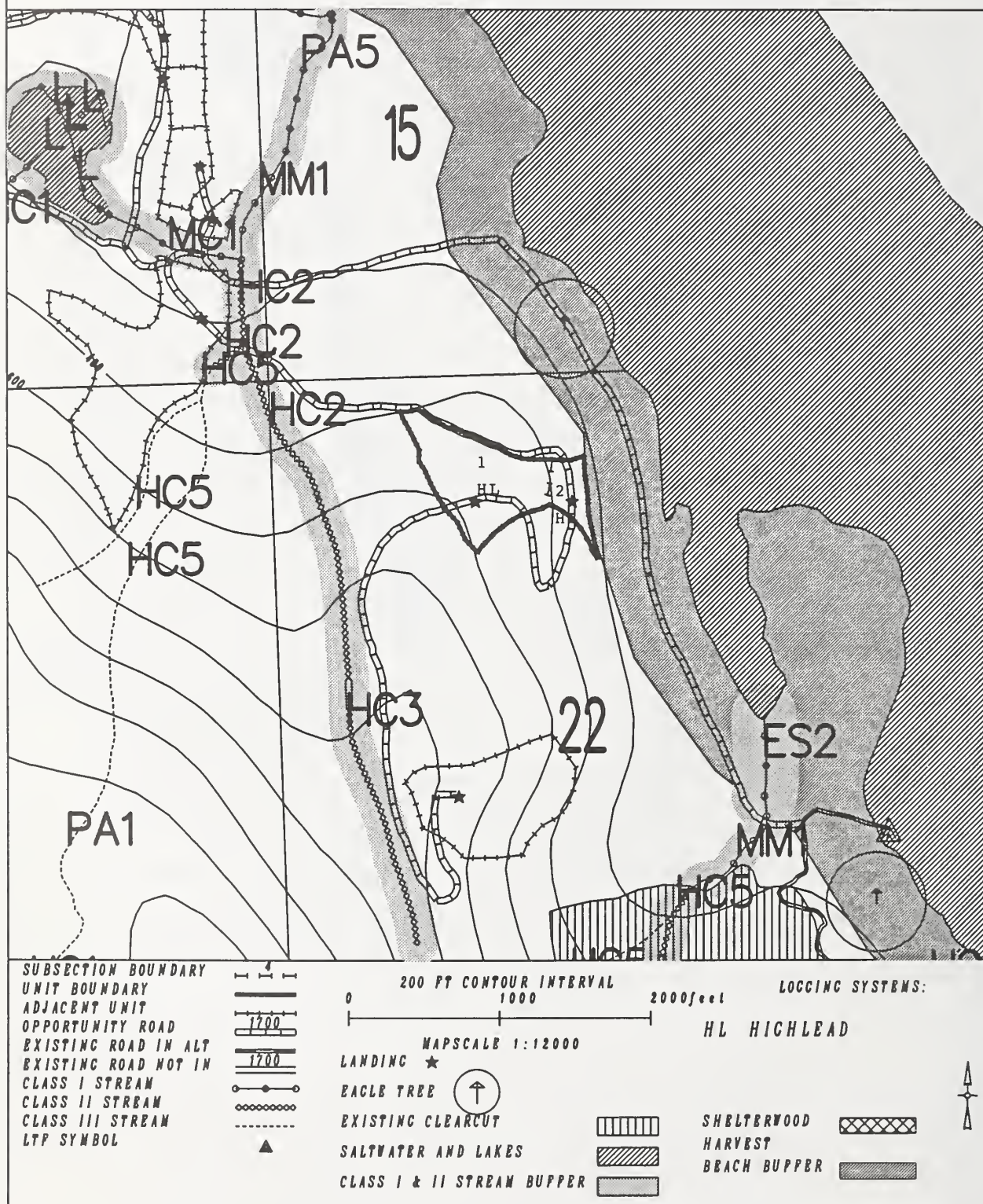
LANDNET INFO

TOWNSHIP

69S

RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 09, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5055</u>	No. Settings <u>7</u>	Alternatives considered <u>4 5</u>	VQO <u>PR</u>
Planned acres <u>39</u>		Quad <u>KTND5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1058</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>CCS</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-90</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 26 acres VC5 13 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 39 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 3 acres Medium 17 acres High 19 acres Very High 0 acres
Cedar 0 Hemlock 38 Mixed 0 Percent Seen 5 Percent Unseen 95 Aspect East

SOILS

This unit has 39 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 14 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are 2 streams which have fish passage requirements, of these passes 2 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nest site is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the BEHM/N.HASSLER viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7350

UNIT NUMBER: 5055

PLANNED HARVEST UNIT MAP

ACRES: 39

VOLUME: 1058

MBP

QUAD(s): KTND5

QUARTER QUAD(s): NWS

PHOTO NUM.:

1179-90

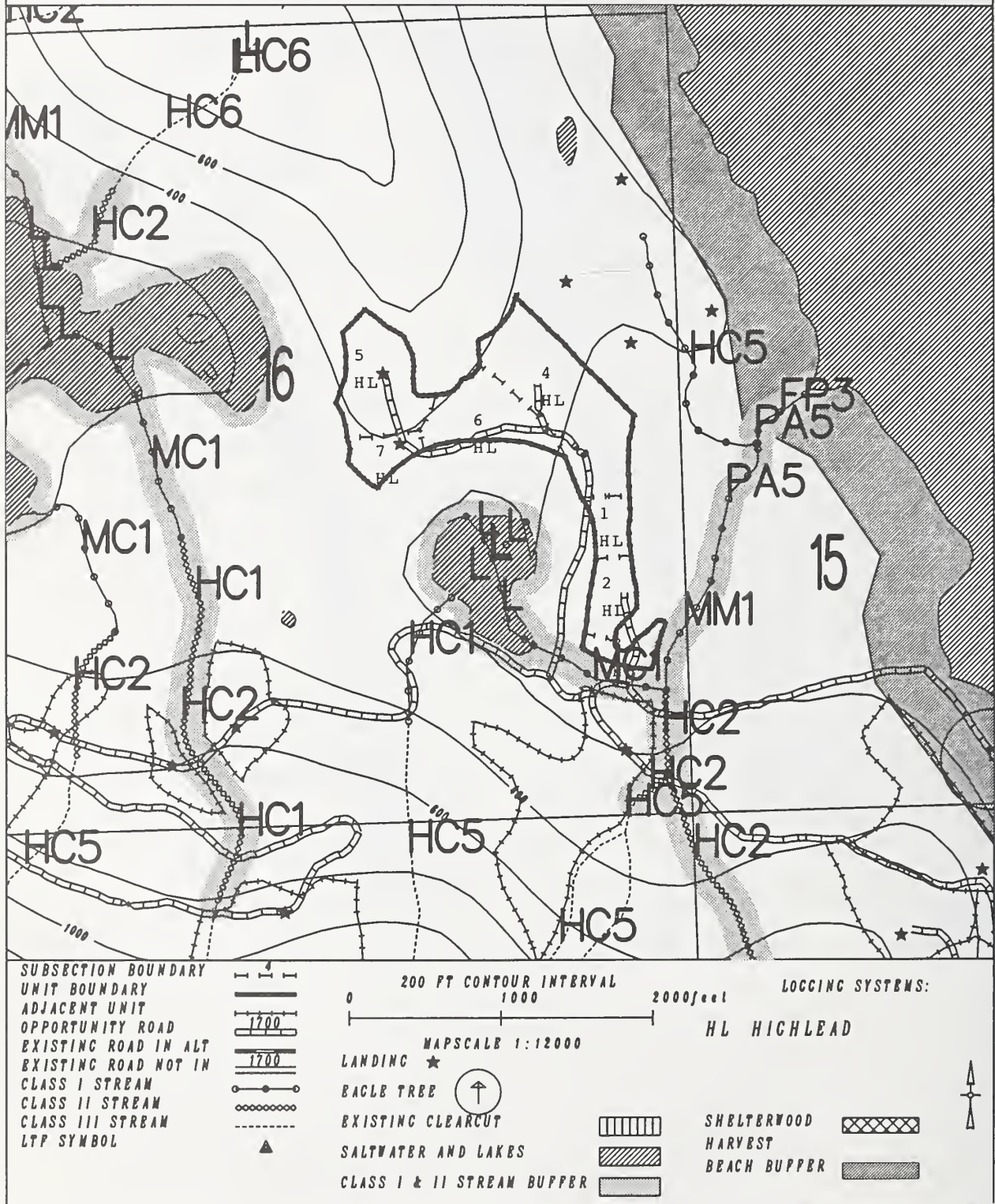
LANDNET INFO

TOWNSHIP

69S

RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 09, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5056</u>	No. Settings <u>6</u>	Alternatives considered <u>4</u>	VQO <u>R</u>
Planned acres <u>51</u>		Quad <u>KTND5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1417</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>CCS</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Shelter wood</u>		1981 Photo <u>1179-90</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 29 acres VC5 22 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 51 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 1 acres Medium 12 acres High 38 acres Very High 0 acres
Cedar 0 Hemlock 49 Mixed 0 Percent Seen 84 Percent Unseen 16 Aspect East

SOILS

This unit has 50 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 29 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Potentially very low volume per acre.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of R as seen from viewpoints within the BEHM/N.HASSLER viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

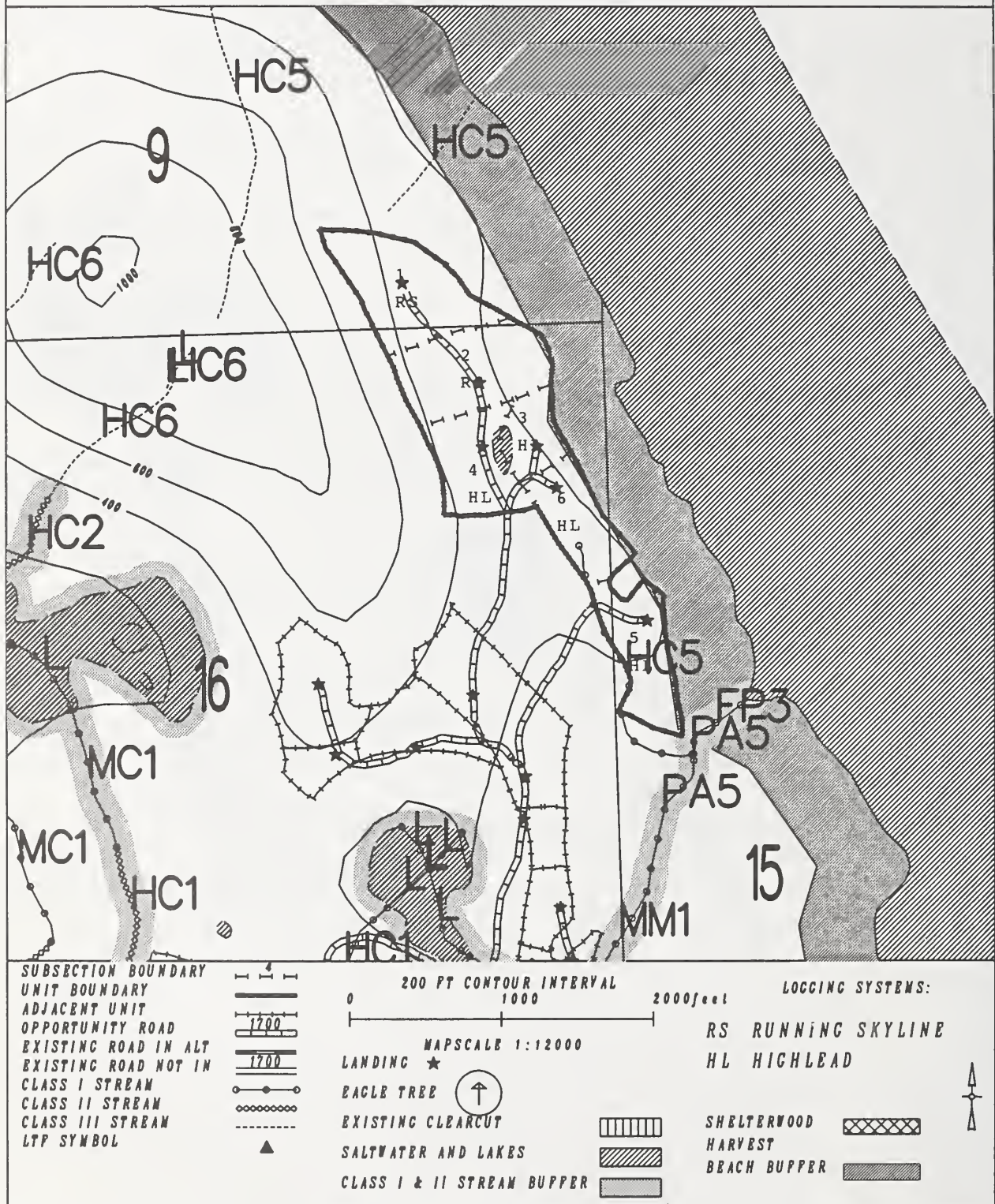
There are no geological mitigation measures anticipated for this unit.

VCU: 7350 UNIT NUMBER: 5056

PLANNED HARVEST UNIT MAP

ACRES: 51 VOLUME: 1417 MBP QUAD(s): KTND5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-90 LANDNET INFO TOWNSHIP 69S RANGE 90P

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following
 intended design of the harvest unit and associated roads.



June 30, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5057</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>PR</u>
Planned acres <u>2</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>63</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>WHS</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-14</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 2 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 2 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 2 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 2 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect East

SOILS

There are no soils mitigation measures anticipated for this unit.

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nestsite is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of PR, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

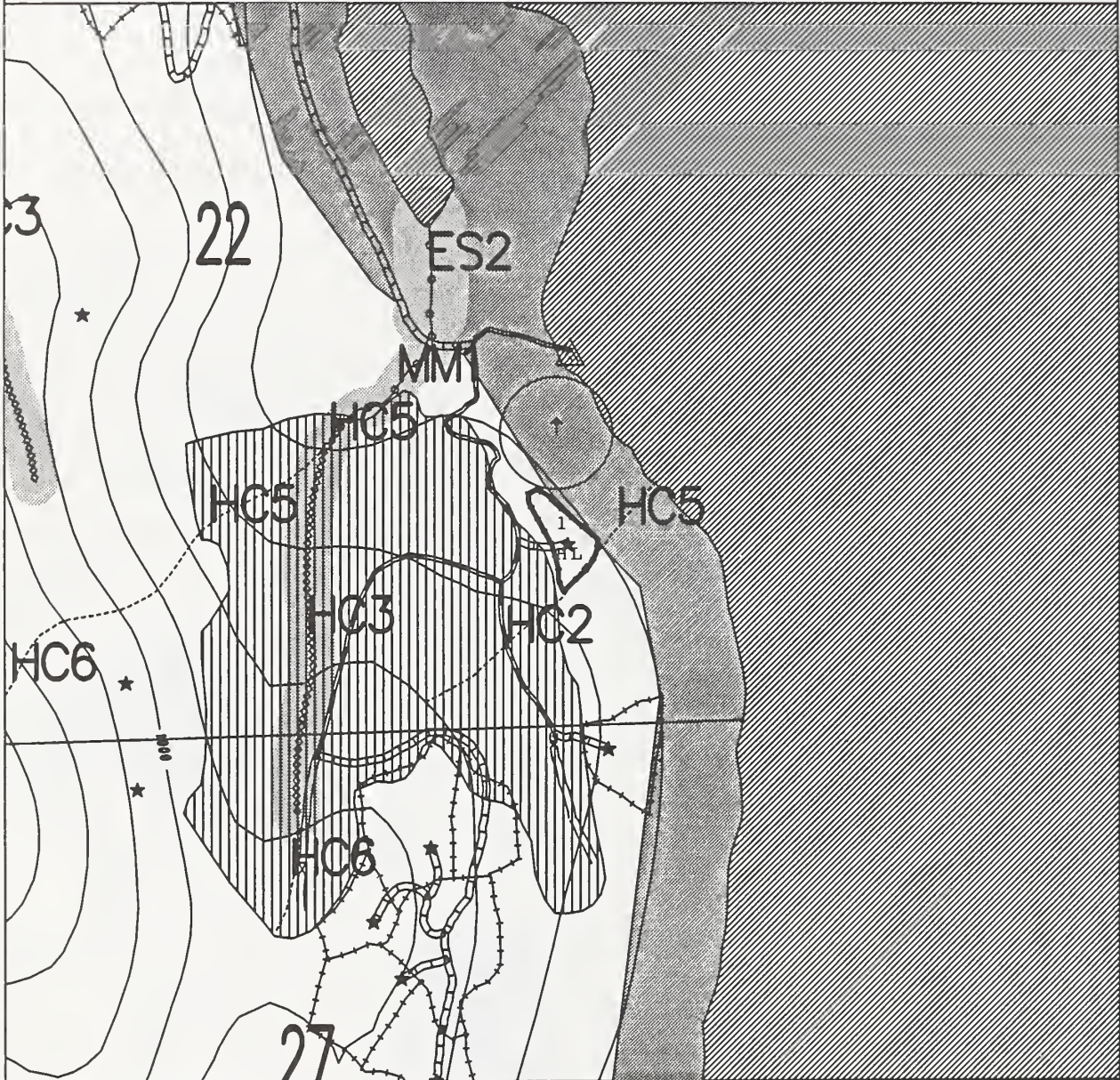
There are no geological mitigation measures anticipated for this unit.

VCU: 7350UNIT NUMBER: 5057

PLANNED HARVEST UNIT MAP

ACRES: 2 VOLUME: 63 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWN
 PHOTO NUM.: 1179-14 LANDNET INFO TOWNSHIP 69S RANGE 90P

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 EAGLE TREE (↑)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGHLEAD

SHELTERWOOD
 HARVEST
 BEACH BUFFER

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5501</u>	No. Settings <u>2</u>	Alternatives considered <u>2 3 4 6</u>	VQO <u>PR</u>
Planned acres <u>26</u>		Quad <u>KTND5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>873</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>CCS</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-30</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 26 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 26 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 5 acres High 21 acres Very High 0 acres
Cedar 0 Hemlock 26 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 9 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

Oversteepened slopes may require full bench construction on 0.30 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the BEHM/W.HASSLER viewshed, approximately a minimum 1/4 mile from shoreline.

There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7350UNIT NUMBER: 5501

PLANNED HARVEST UNIT MAP

ACRES: 26VOLUME: 873

MBP

QUAD(KTND5/KTND6)QUARTER QUAD(s): NWS/NES

PHOTO NUM.:

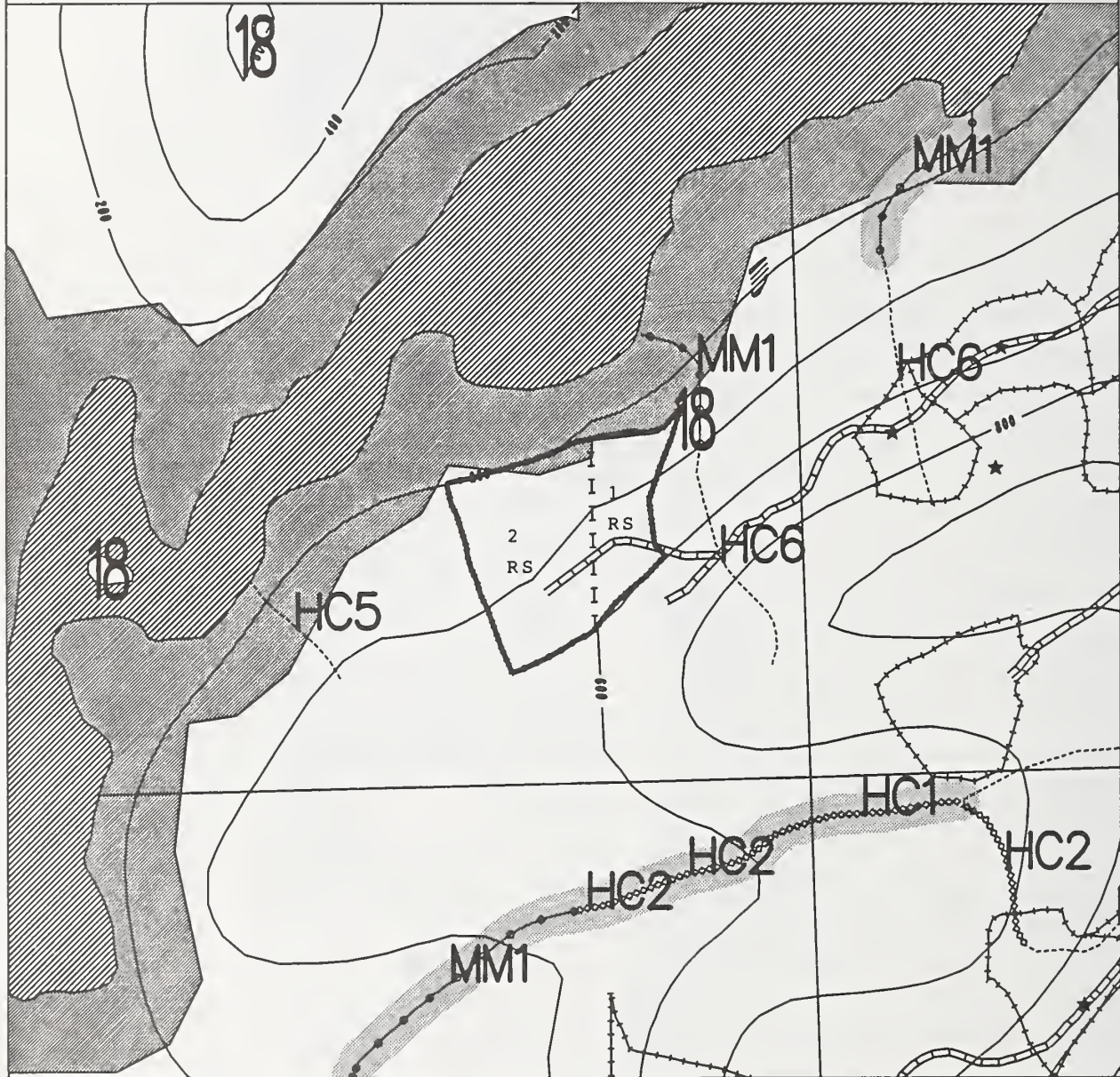
1179-30

LANDNET INFO

TOWNSHIP

69SRANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★
BACLE TREE (↑)
EXISTING CLEARCUT
SALTWATER AND LAKES
CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:
RS RUNNING SKYLINE

SHELTERWOOD
HARVEST
BEACH BUFFER



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5502</u>	No. Settings <u>5</u>	Alternatives considered <u>2</u>	VQO <u>PR</u>
Planned acres <u>46</u>		Quad <u>KTND5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1287</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>CCS</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-84</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 29 acres VC5 17 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 46 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 14 acres Medium 32 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 46 Mixed 0 Percent Seen 91 Percent Unseen 9 Aspect North

SOILS

This unit has 46 acres that may require partial or full suspension (BMP 13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 46 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction on 1.14 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the BEHM/W.HASSLER viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7350UNIT NUMBER: 5502

PLANNED HARVEST UNIT MAP

ACRES: 46VOLUME: 1287

MBP

QUAD(s): KTND5QUARTER QUAD(s): NWS

PHOTO NUM.:

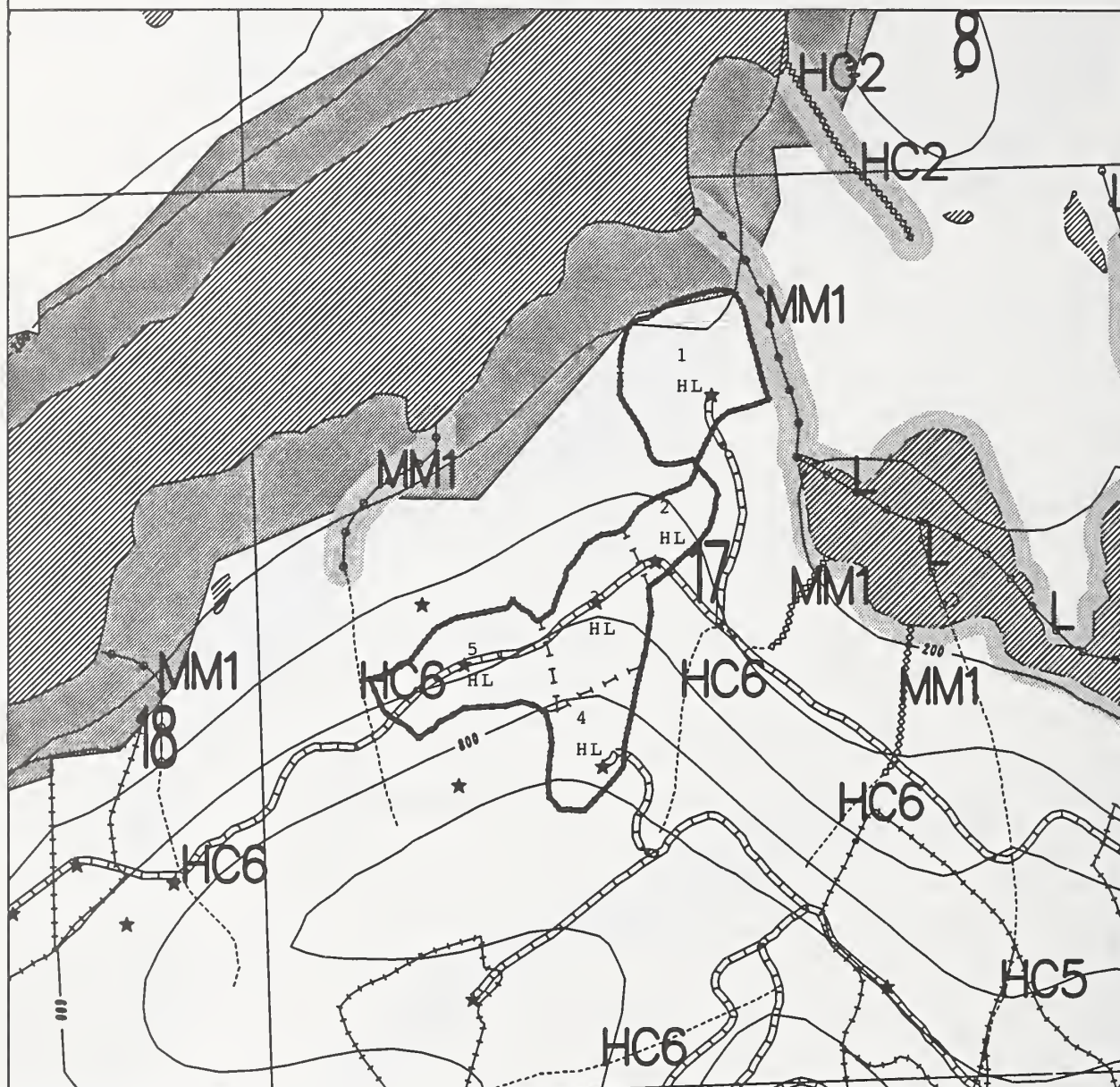
1179-84

LANDNET INFO

TOWNSHIP

69SRANGR 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGH LEAD

SHELTERWOOD

HARVEST

BEACH BUFFER



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5505</u> No. Settings <u>3</u>	Alternatives considered <u>2 3 4 6</u>	VQO <u>PR</u>
Planned acres <u>34</u>	Quad <u>KTND5NWS</u>	Windthrow risk <u> </u>
Estimated volume (mbf) <u>1127</u>	Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u> </u>
Logging methods <u>HL</u>	WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>	1981 Photo <u>1179-83</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 34 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 20 acres over 1500 ft. 14 acres
Mass movement index: Low 10 acres Medium 17 acres High 7 acres Very High 0 acres
Cedar 0 Hemlock 32 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has 15 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 21 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the BEHM/W.HASSLER viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7350UNIT NUMBER: 5505

PLANNED HARVEST UNIT MAP

ACRES: 0VOLUME: 0

MBP

QUAD(s): KTND5QUARTER QUAD(s): NWS/SWN

PHOTO NUM.:

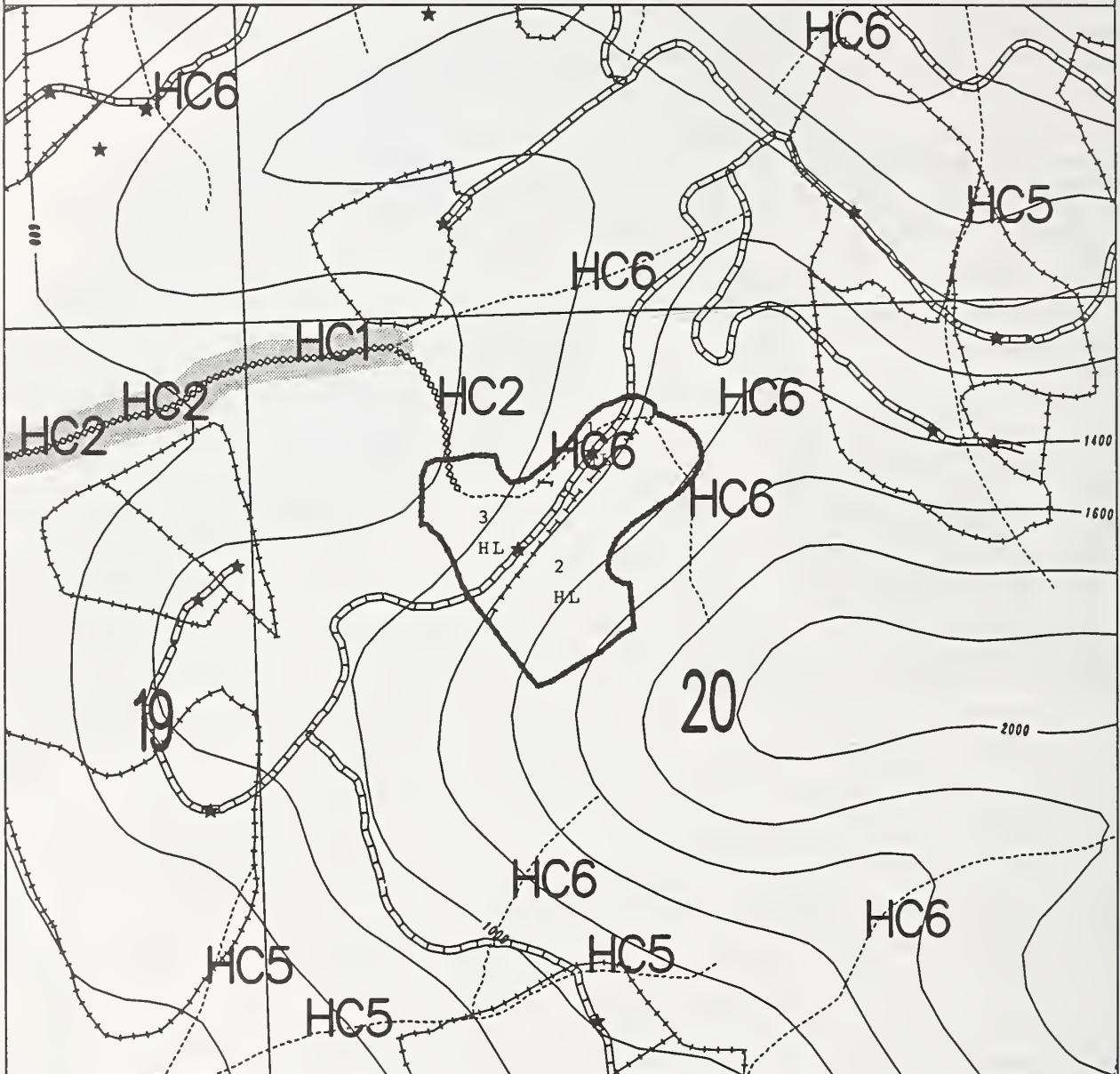
1179-83

LANDNET INFO

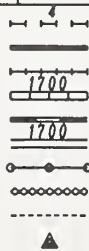
TOWNSHIP

69SRANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGHLEAD



SHELTERWOOD
HARVEST
BEACH BUFFER



July 29, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5513</u>	No. Settings <u>3</u>	Alternatives considered <u>2</u>	VQO <u>R</u>
Planned acres <u>16</u>		Quad <u>KTND5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>470</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>CCS</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-90</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 5 acres VC5 11 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 16 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 1 acres High 15 acres Very High 0 acres
Cedar 0 Hemlock 16 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect East

SOILS

This unit has 16 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

Potentially very low volume per acre.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction on 0.18 miles of road
and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of
Bald Eagle nest site. If nest site is active follow the intra-agency agreement
agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of R as seen from viewpoints within the BEHM/N.HASSLER viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

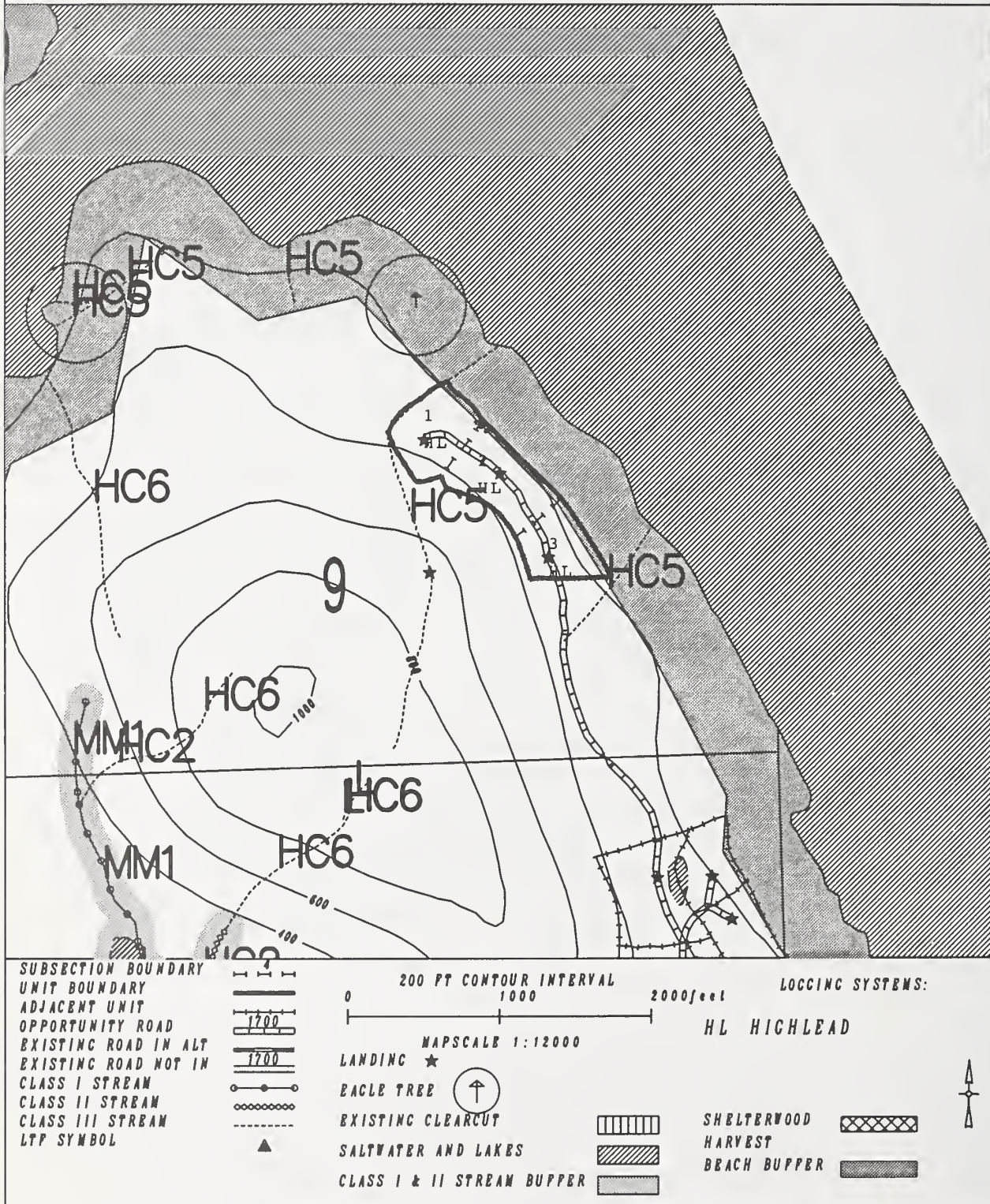
There are no geological mitigation measures anticipated for this unit.

VCU: 7350UNIT NUMBER: 5513

PLANNED HARVEST UNIT MAP

ACRES: 16 VOLUME: 470 MBP QUAD(s): KTND5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-90 LANDNET INFO TOWNSHIP 69S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 09, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5517</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u>	VQO <u>M</u>
Planned acres <u>12</u>		Quad <u>KTND5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>363</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>CCS</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u></u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-91</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 2 acres VC5 10 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 12 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 12 acres Very High 0 acres
Cedar 0 Hemlock 0 Mixed 12 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit contains 12 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nest site is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has adopted VQO of M, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

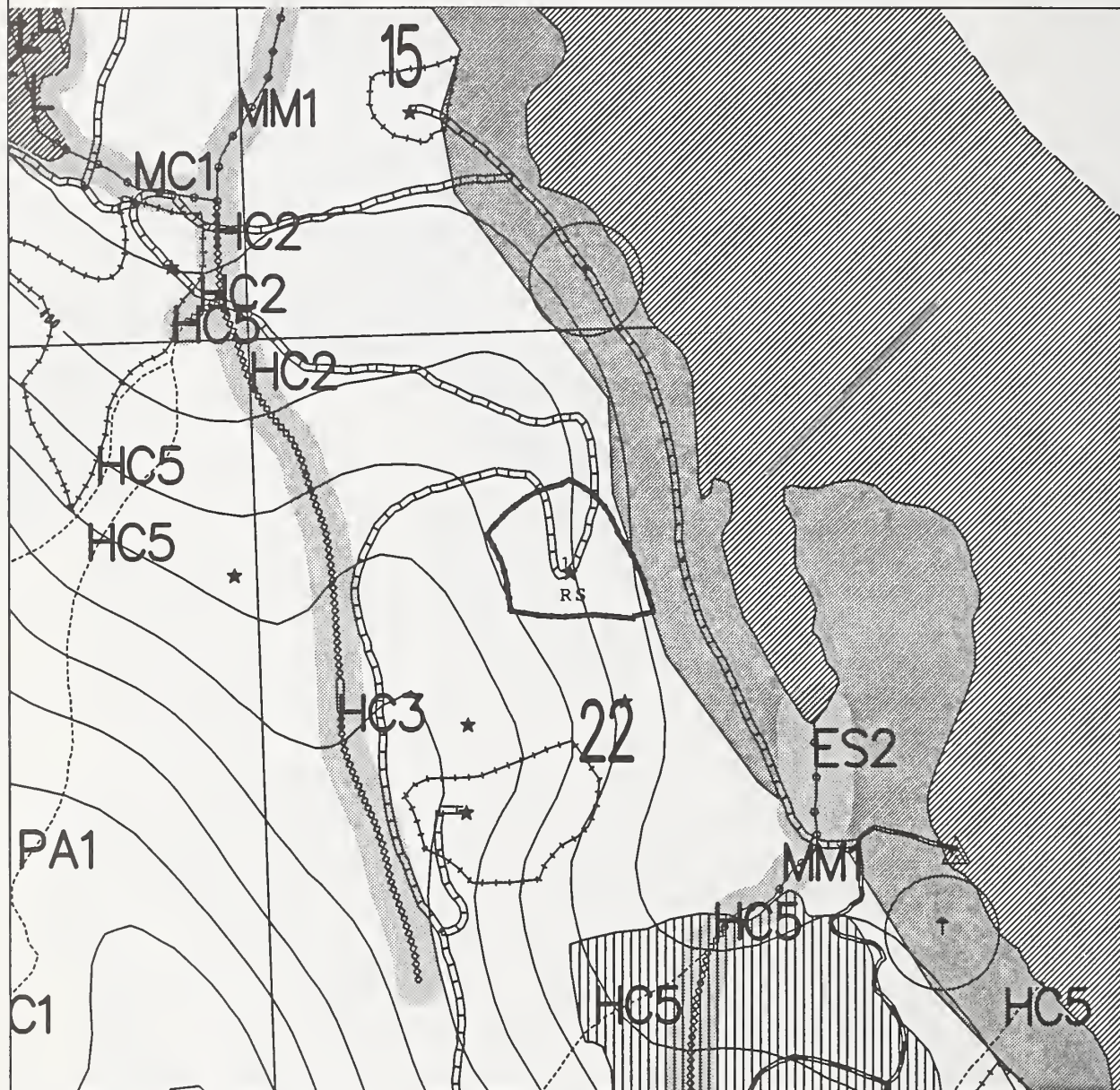
There are no geological mitigation measures anticipated for this unit.

VCU: 7350UNIT NUMBER: 5517

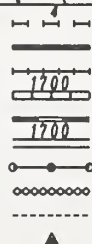
PLANNED HARVEST UNIT MAP

ACRES: 12 VOLUME: 363 MBP QUAD(s): KTND5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-91 LANDNET INFO TOWNSHIP 69S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE



SHELTERWOOD



HARVEST



BEACH BUFFER



SHUTTERWOOD



BEACH BUFFER



July 09, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5518</u>	No. Settings <u>2</u>	Alternatives considered <u>2</u>	VQO <u>M</u>
Planned acres <u>44</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1202</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>WHS</u>
Logging methods <u>RS</u> <u>HE</u>		WAA <u>510</u>	Forest type <u>Cedar</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-93</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 28 acres VC5 16 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 44 acres
Mass movement index: Low 7 acres Medium 5 acres High 32 acres Very High 0 acres
Cedar 27 Hemlock 5 Mixed 11 Percent Seen 50 Percent Unseen 50 Aspect North

SOILS

This unit has 44 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 3 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
Oversteepened slopes may require full bench construction on 0.21 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nestsite is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the S.HASSLER PASS viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

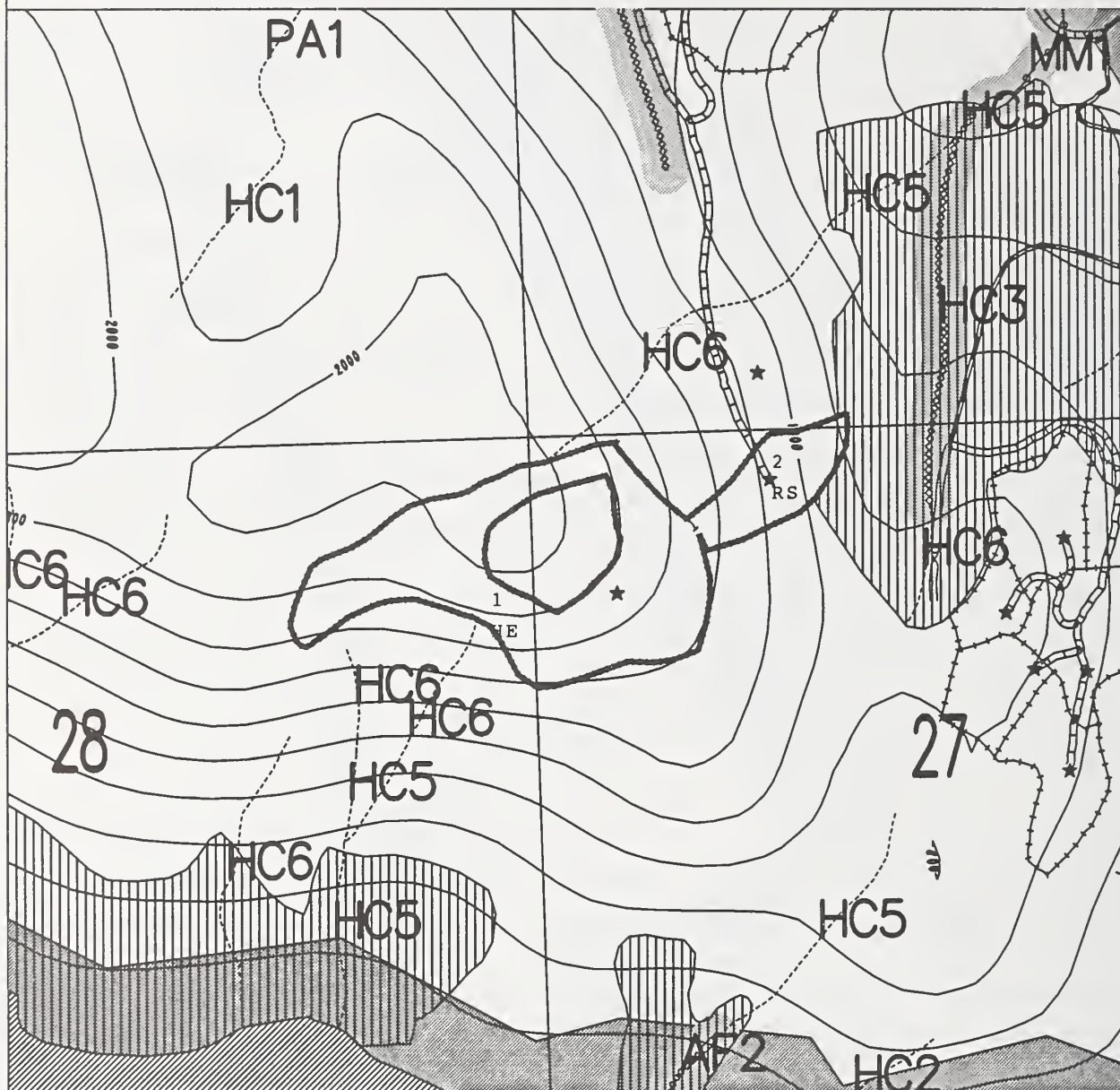
There are no geological mitigation measures anticipated for this unit.

VCU: 7350UNIT NUMBER: 5518

PLANNED HARVEST UNIT MAP

ACRES: 44 VOLUME: 1202 MBF QUAD(s): KTND5 QUARTER QUAD(s): SWN
 PHOTO NUM.: 1179-93 LANDNET INFO TOWNSHIP 69S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 EAGLE TREE (upward arrow in circle)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HE HELICOPTER
 RS RUNNING SKYLINE

SHELTERWOOD
 HARVEST
 BEACH BUFFER



June 30, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5525</u>	No. Settings <u>5</u>	Alternatives considered <u>6</u>	VQO <u>PR</u>
Planned acres <u>40</u>		Quad <u>KTND5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1137</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>WHC</u>
Logging methods <u>HL RS</u>		WAA <u>510</u>	Forest type <u></u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-84</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 23 acres VC5 17 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 40 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 8 acres Medium 32 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 33 Mixed 7 Percent Seen 98 Percent Unseen 2 Aspect North

SOILS

There are no soils mitigation measures anticipated for this unit.

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of PR, and is not seen within a viewshed.

There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

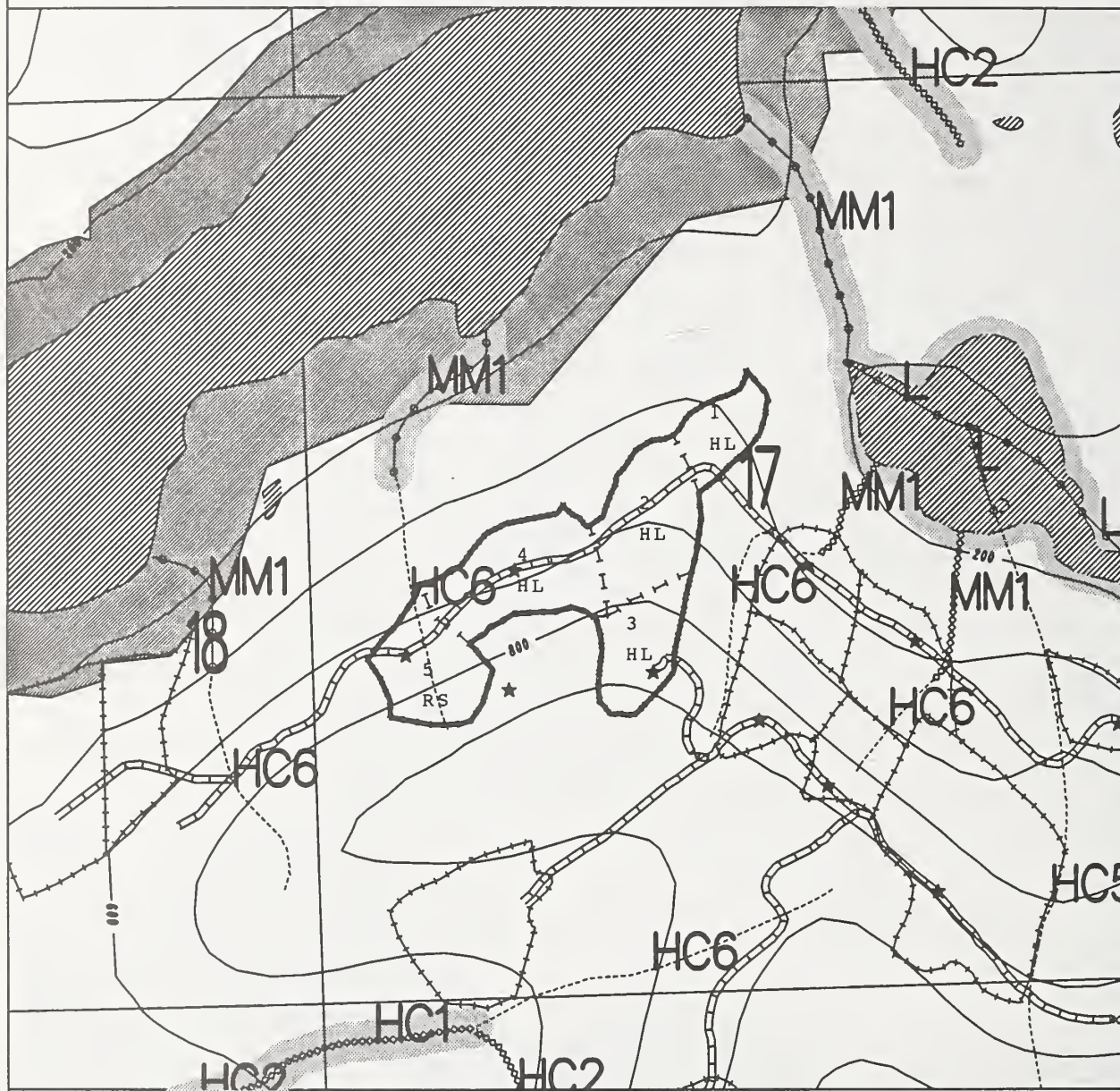
There are no geological mitigation measures anticipated for this unit.

VCU: 7350 UNIT NUMBER: 5525

PLANNED HARVEST UNIT MAP

ACRES: 40 VOLUME: 1137 MBP QUAD(s): KTND5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-84 LANDNET INFO TOWNSHIP 69S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet
 MAP SCALE 1:12000
 LANDING ★
 EAGLE TREE (↑)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGHLEAD
 RS RUNNING SKYLINE

SHELTERWOOD
 HARVEST
 BEACH BUFFER



June 30, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5526</u>	No. Settings <u>1</u>	Alternatives considered <u>4</u>	VQO <u>PR</u>
Planned acres <u>26</u>		Quad <u>KTND5NWS</u>	Windthrow risk <u> </u>
Estimated volume (mbf) <u>810</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u> </u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-84</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 1 acres VC5 25 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 2 acres Medium 24 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 0 Mixed 0 Percent Seen 83 Percent Unseen 17 Aspect North

SOILS

This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of PR, and is not seen within a viewshed.

There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7350

UNIT NUMBER: 5526

PLANNED HARVEST UNIT MAP

ACRES: 26

VOLUME: 810

MBP

QUAD(s): KTND5

QUARTER QUAD(s): NWS

PHOTO NUM.:

1179-84

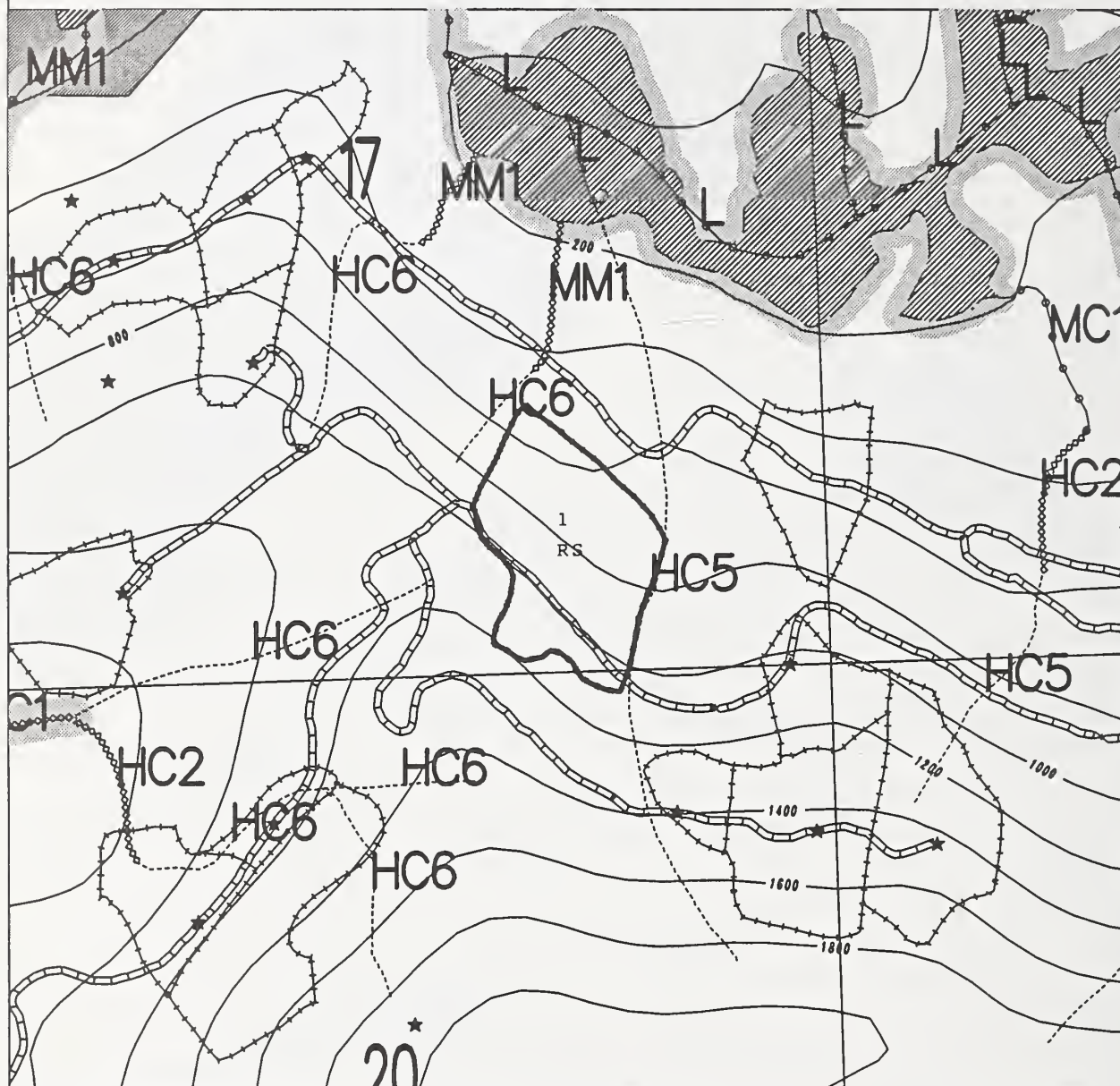
LANDNET INFO

TOWNSHIP

69S

RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 PT CONTOUR INTERVAL
0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE



SHELTERWOOD
HARVEST
BEACH BUFFER



July 21, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5529</u>	No. Settings <u>5</u>	Alternatives considered <u>6</u>	VQO <u>PR</u>
Planned acres <u>42</u>		Quad <u>KTND5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1120</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>WHC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u></u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-90</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 31 acres VC5 11 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 42 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 2 acres Medium 18 acres High 22 acres Very High 0 acres
Cedar 0 Hemlock 41 Mixed 0 Percent Seen 29 Percent Unseen 71 Aspect East

SOILS

This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of PR, and is not seen within a viewshed.

There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

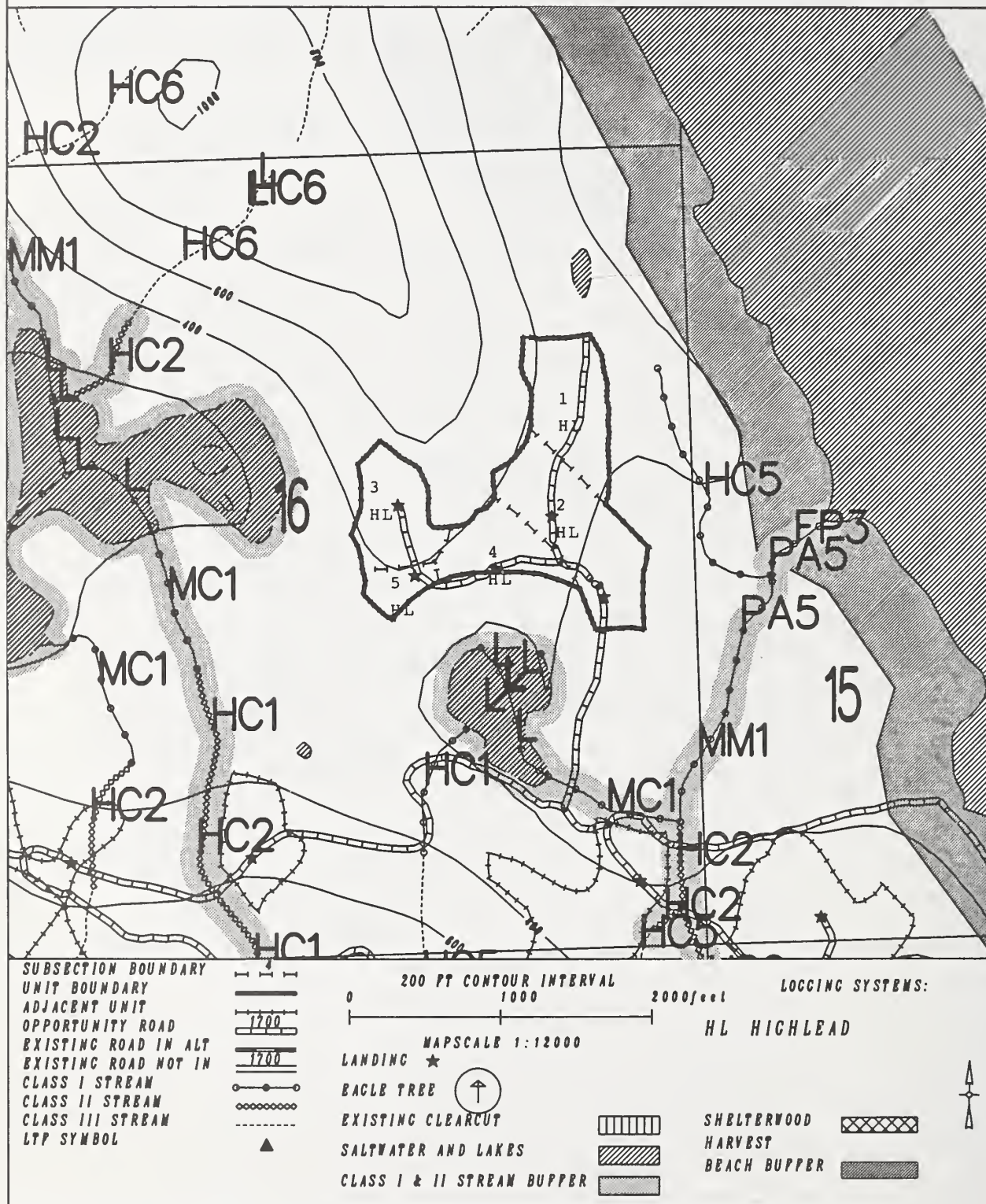
There are no geological mitigation measures anticipated for this unit.

VCU: 7350 UNIT NUMBER: 5529

PLANNED HARVEST UNIT MAP

ACRES: 42 VOLUME: 1120 MBP QUAD(s): KTND5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-90 LANDNET INFO TOWNSHIP 69S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following
 intended design of the harvest unit and associated roads.



June 30, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5536</u>	No. Settings <u>1</u>	Alternatives considered <u>6</u>	VQO <u>PR</u>
Planned acres <u>14</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>M</u>
Estimated volume (mbf) <u>385</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>CMM</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u></u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-83</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 14 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 14 acres
Mass movement index: Low 1 acres Medium 2 acres High 11 acres Very High 0 acres
Cedar 0 Hemlock 13 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of PR, and is not seen within a viewshed.

There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

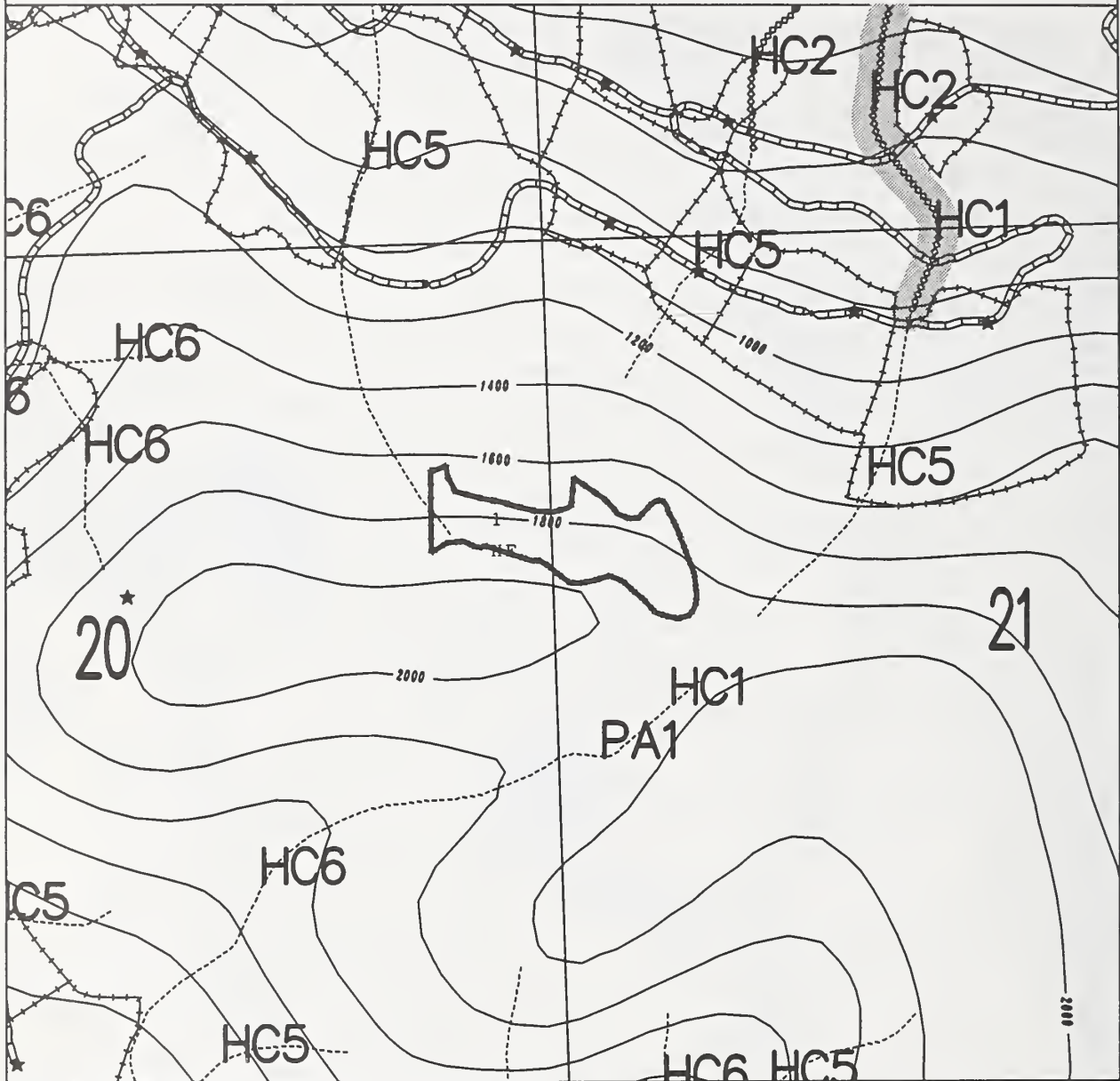
There are no geological mitigation measures anticipated for this unit.

VCU: 7350UNIT NUMBER: 5536

PLANNED HARVEST UNIT MAP

ACRES: 14 VOLUME: 385 MBP QUAD(s): KTND5 QUARTER QUAD(s): NWS/SWN
 PHOTO NUM.: 1179-83 LANDNET INFO TOWNSHIP 69S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN ALT
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HE HELICOPTER

SHELTERWOOD
 HARVEST
 BEACH BUFFER



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5540</u>	No. Settings <u>3</u>	Alternatives considered <u>5</u>	VQO <u>PR</u>
Planned acres <u>26</u>		Quad <u>KTND5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>759</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>WHC</u>
Logging methods <u>HL RS</u>		WAA <u>510</u>	Forest type <u></u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-84</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 9 acres VC5 17 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 9 acres 800-1200 ft. 17 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 26 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 18 Mixed 8 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

There are no soils mitigation measures anticipated for this unit.

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of PR, and is not seen within a viewshed.

There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7350

UNIT NUMBER: 5540

PLANNED HARVEST UNIT MAP

ACRES: 26

VOLUME: 759

MBP

QUAD(s): KTND5

QUARTER QUAD(s): NWS

PHOTO NUM.:

1179-84

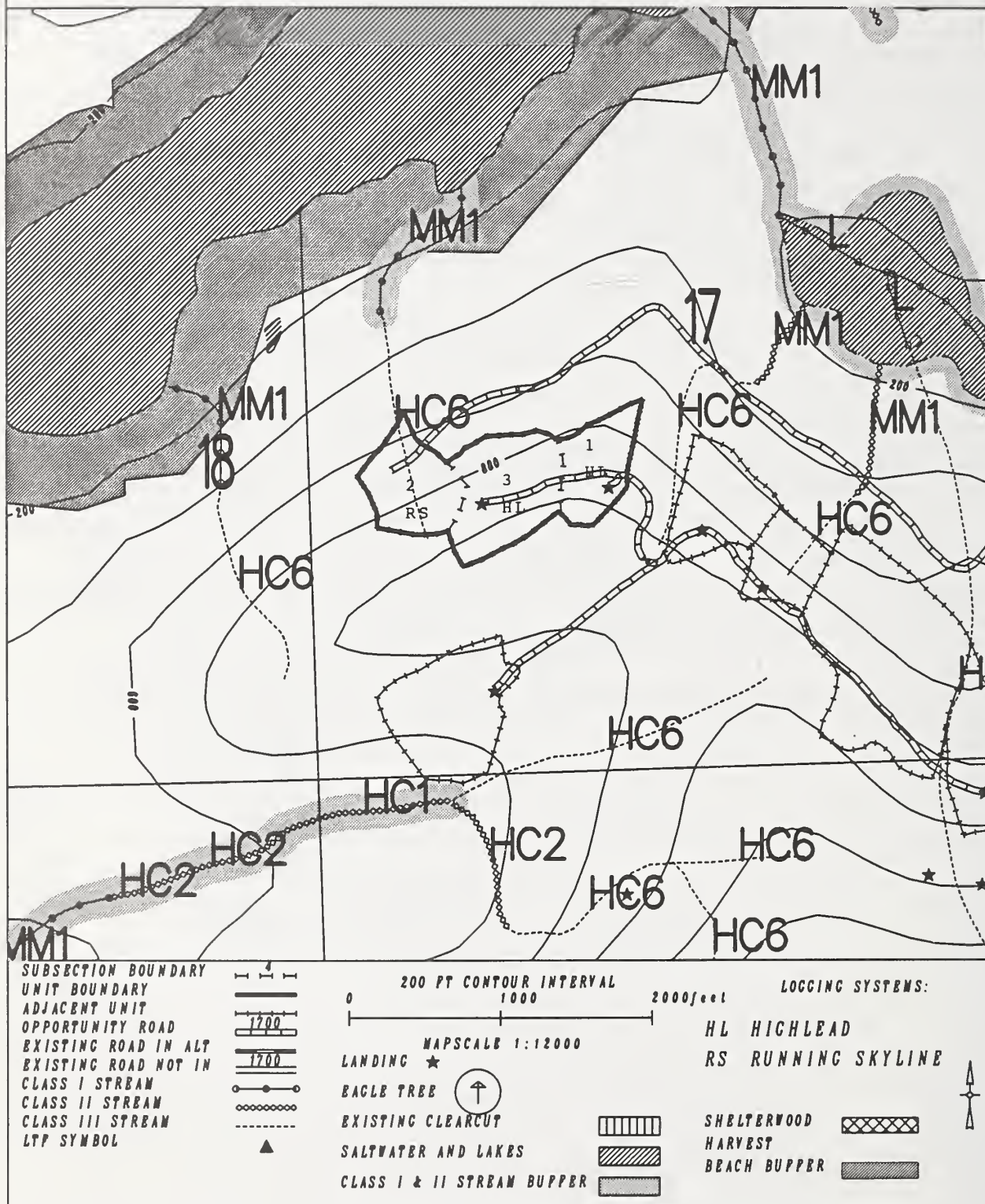
LANDNET INFO

TOWNSHIP

69S

RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



June 30, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5541</u>	No. Settings <u>4</u>	Alternatives considered <u>5</u>	VQO <u>PR</u>
Planned acres <u>56</u>		Quad <u>KTND5NWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1727</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>WHS</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u></u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-84</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 5 acres VC5 51 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 14 acres 800-1200 ft. 42 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 5 acres Medium 51 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 53 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

There are no soils mitigation measures anticipated for this unit.

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of PR, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7350UNIT NUMBER: 5541

PLANNED HARVEST UNIT MAP

ACRES: 56VOLUME: 1727

MBP

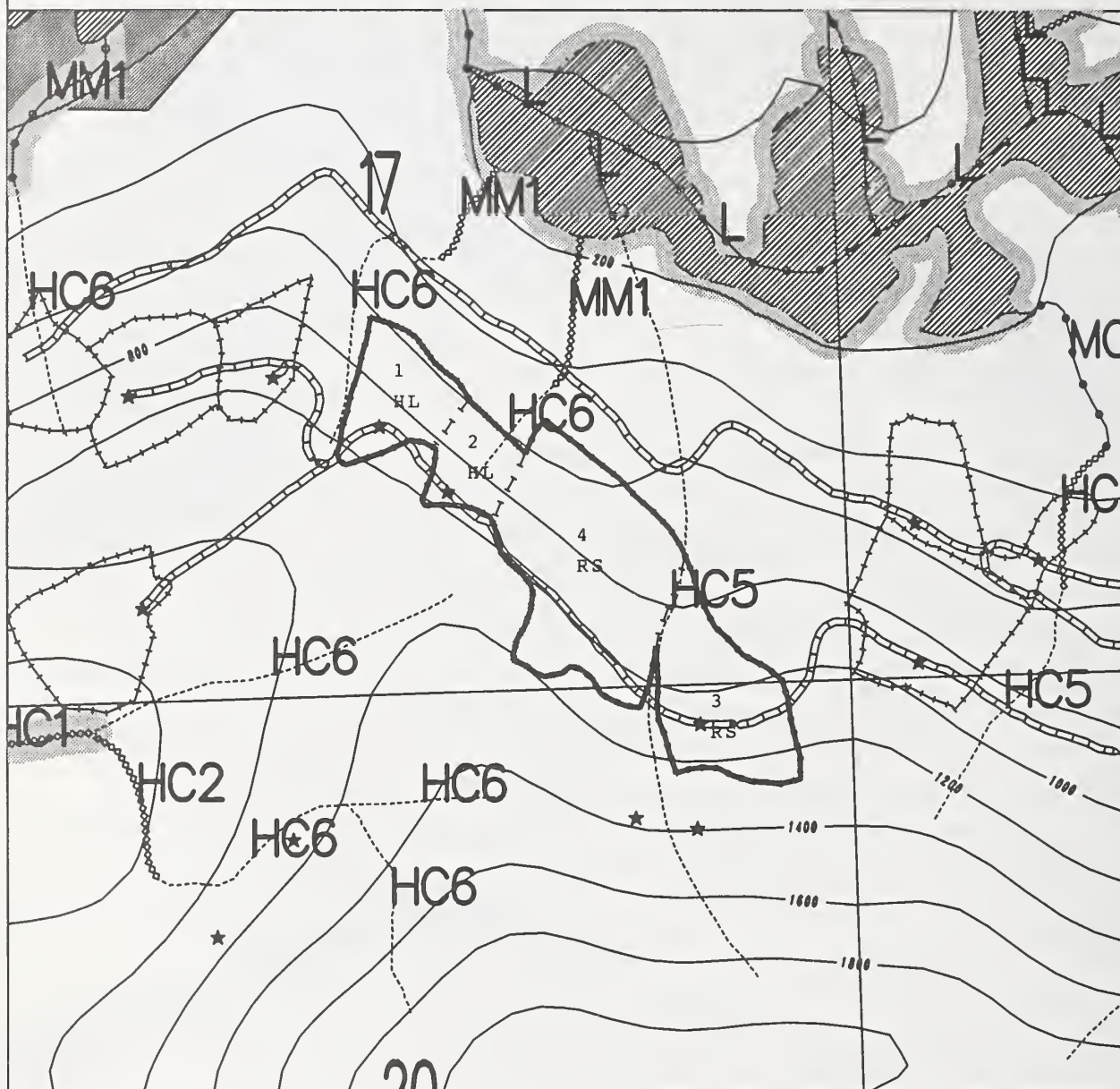
QUAD(s): KTND5QUARTER QUAD(s): NWSPHOTO NUM.: 1179-84

LANDNET INPG

TOWNSHIP

69SRANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
EAGLE TREE (upward arrow in circle)
EXISTING CLEARCUT
SALTWATER AND LAKES
CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGHLEAD
RS RUNNING SKYLINE

SHELTERWOOD
HARVEST
BEACH BUFFER



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPDA DEIS

Unit <u>5550</u>	No. Settings <u>4</u>	Alternatives considered <u>4</u>	VQO <u>R</u>
Planned acres <u>32</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>937</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>CCS</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-84</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 15 acres VC5 17 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 20 acres 800-1200 ft. 12 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 9 acres Medium 23 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 30 Mixed 3 Percent Seen 97 Percent Unseen 3 Aspect North

SOILS

This unit has 5 acres that may require partial or full suspension (BMP 13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of R as seen from viewpoints within the BEHM/W.HASSLER viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7350

UNIT NUMBER: 5550

PLANNED HARVEST UNIT MAP

ACRES: 0

VOLUME: 0

MBP

QUAD(s): KTND5

QUARTER QUAD(s): NWS

PHOTO NUM.:

1179-84

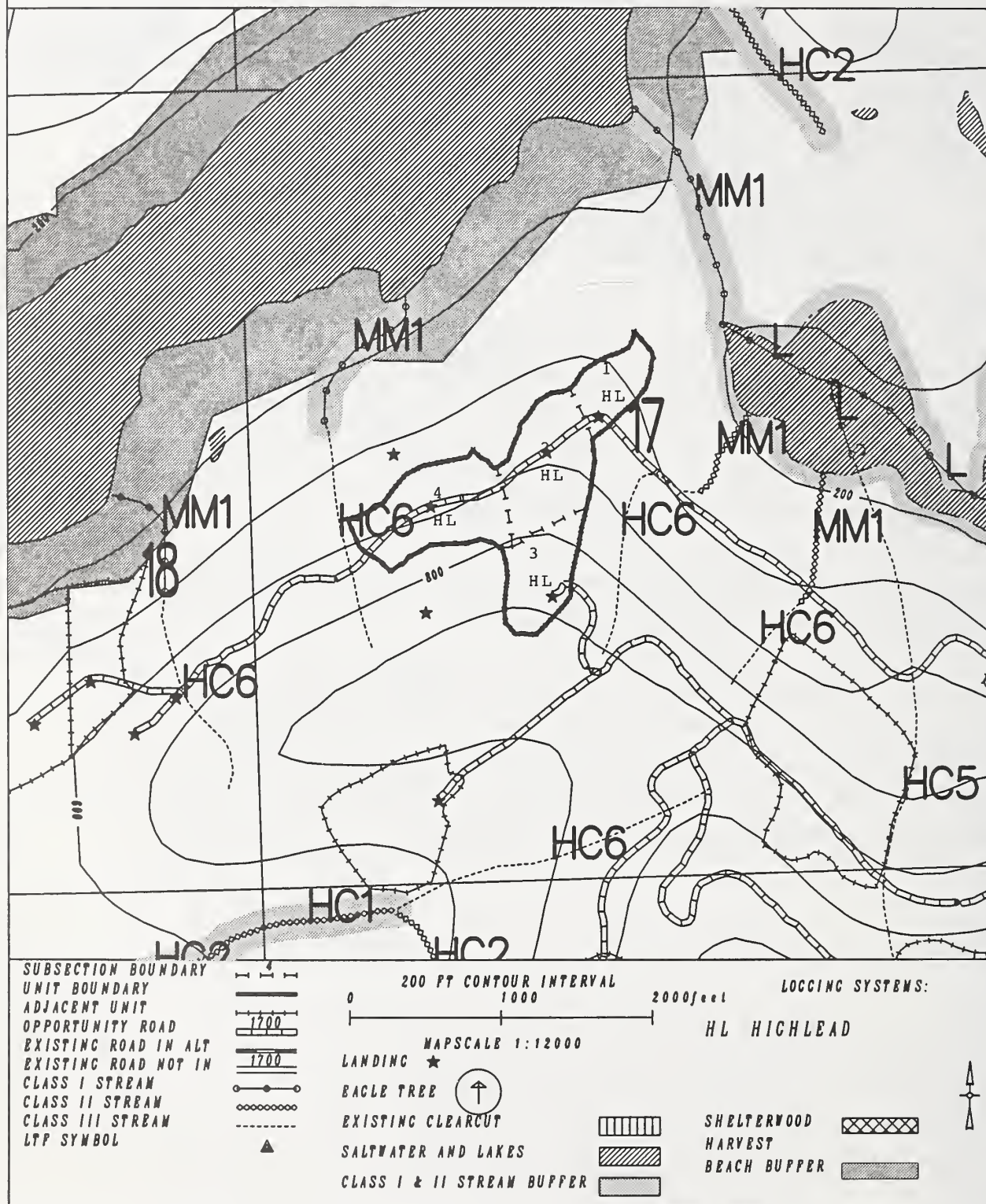
LANDNET INFO

TOWNSHIP

69S

RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 12, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5551</u>	No. Settings <u>4</u>	Alternatives considered <u>4</u>	VQO <u>PR</u>
Planned acres <u>51</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u> </u>
Estimated volume (mbf) <u>1490</u>		Mgmt Area <u>KE2</u> VCU <u>7350</u>	Plant Series <u> </u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>LL79-83</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 17 acres VC5 34 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 12 acres 1200-1500 ft. 24 acres over 1500 ft. 15 acres
Mass movement index: Low 0 acres Medium 37 acres High 14 acres Very High 0 acres
Cedar 0 Hemlock 47 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of PR, and is not seen within a viewshed.

There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

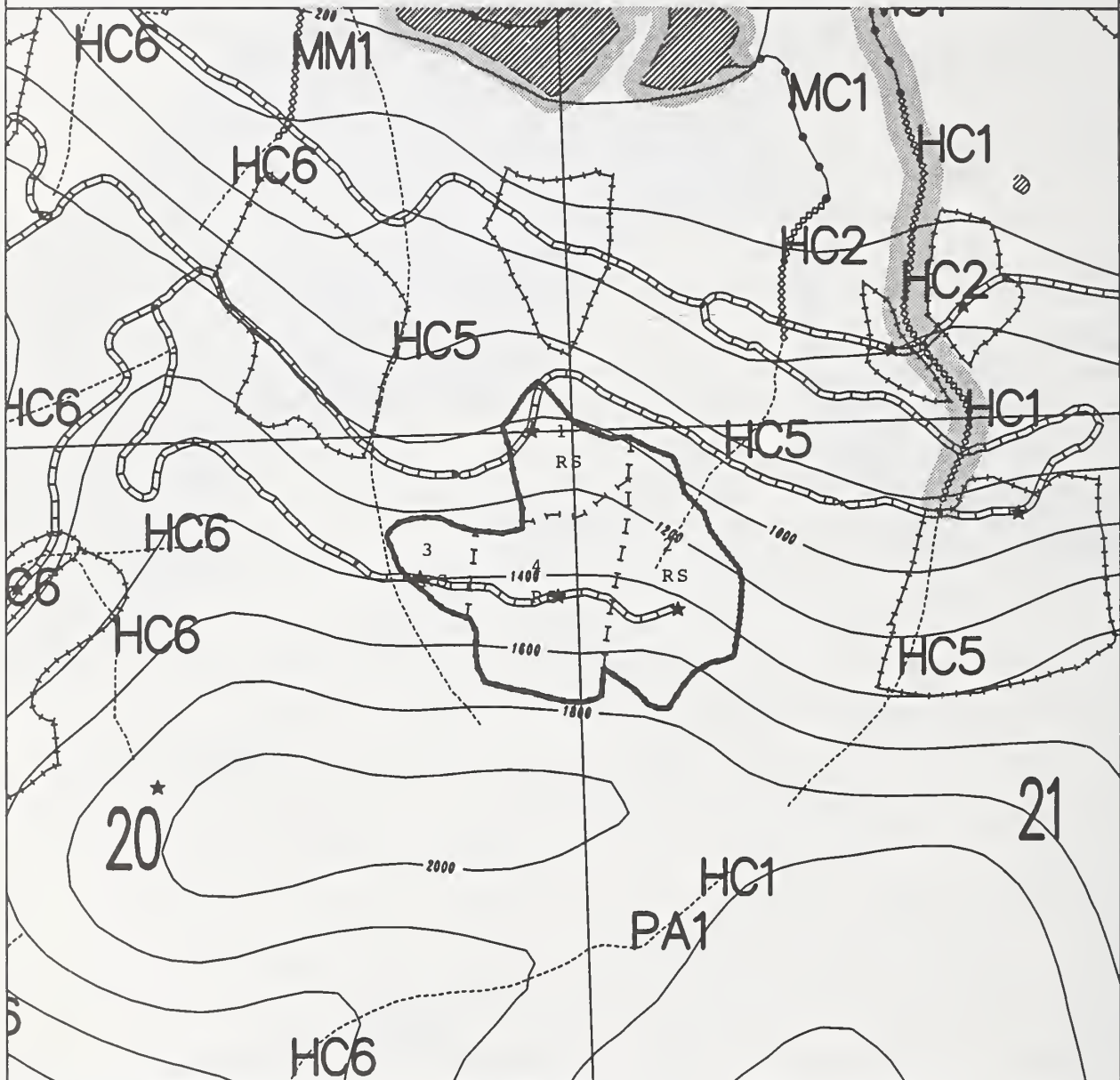
There are no geological mitigation measures anticipated for this unit.

VCU: 7350 UNIT NUMBER: 5551

PLANNED HARVEST UNIT MAP

ACRES: 51 VOLUME: 1490 MBP QUAD(s): KTND5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-84 LANDNET INFO TOWNSHIP 69S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE



SHELTERWOOD

HARVEST

BEACH BUFFER



SHELTERWOOD

HARVEST

BEACH BUFFER



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>5560</u>	No. Settings <u>3</u>	Alternatives considered <u>3</u>	VQO <u>PR</u>
Planned acres <u>26</u>	Quad <u>KTND5NWS</u>	Windthrow risk <u>H</u>	
Estimated volume (mbf) <u>723</u>	Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>WHS</u>	
Logging methods <u>HL RS</u>	WAA <u>510</u>	Forest type <u></u>	
Silvicultural system <u>Clearcut</u>	1981 Photo <u>1179-84</u>		

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 19 acres VC5 7 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 26 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 5 acres Medium 21 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 19 Mixed 7 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

There are no soils mitigation measures anticipated for this unit.

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of PR, and is not seen within a viewshed.

There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

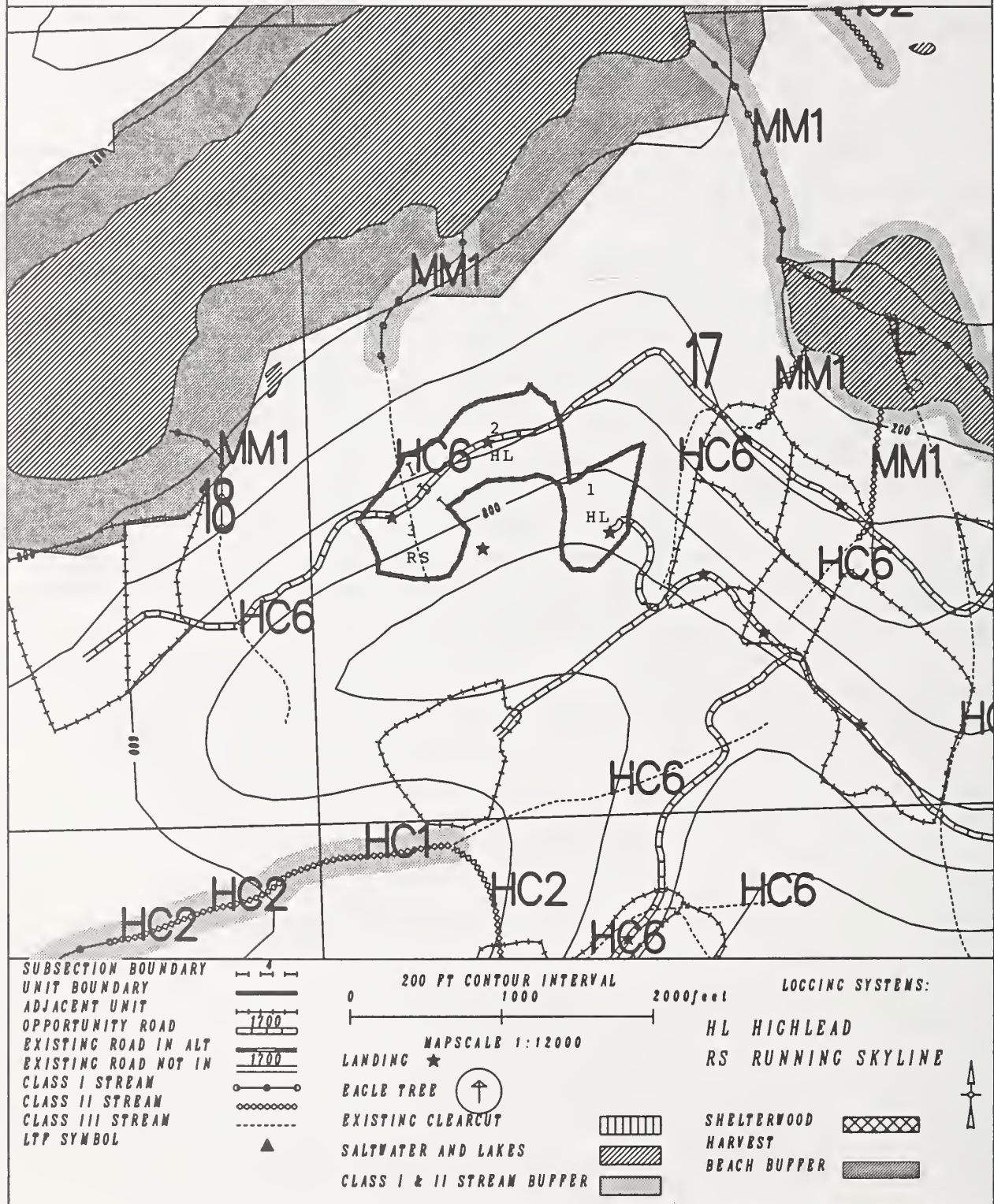
There are no geological mitigation measures anticipated for this unit.

VCU: 7350 UNIT NUMBER: 5560

PLANNED HARVEST UNIT MAP

ACRES: 26 VOLUME: 723 MBP QUAD(s): KTND5 QUARTER QUAD(s): NWS
 PHOTO NUM.: 1179-84 LANDNET INFO TOWNSHIP 69S RANGE 90P

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 10, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6001</u>	No. Settings <u>2</u>	Alternatives considered <u>2</u>	VQO <u>PR</u>
Planned acres <u>24</u>		Quad <u>KTND6SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>600</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>WDC</u>
Logging methods <u>HL SL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-20</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 24 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 24 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 10 acres High 14 acres Very High 0 acres
Cedar 0 Hemlock 21 Mixed 3 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 24 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are 4 streams which have fish passage requirements, of these passes 2 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of
Bald Eagle nest site. If nest site is active follow the intra-agency agreement
agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the BEHM/NW NEETS BAY viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

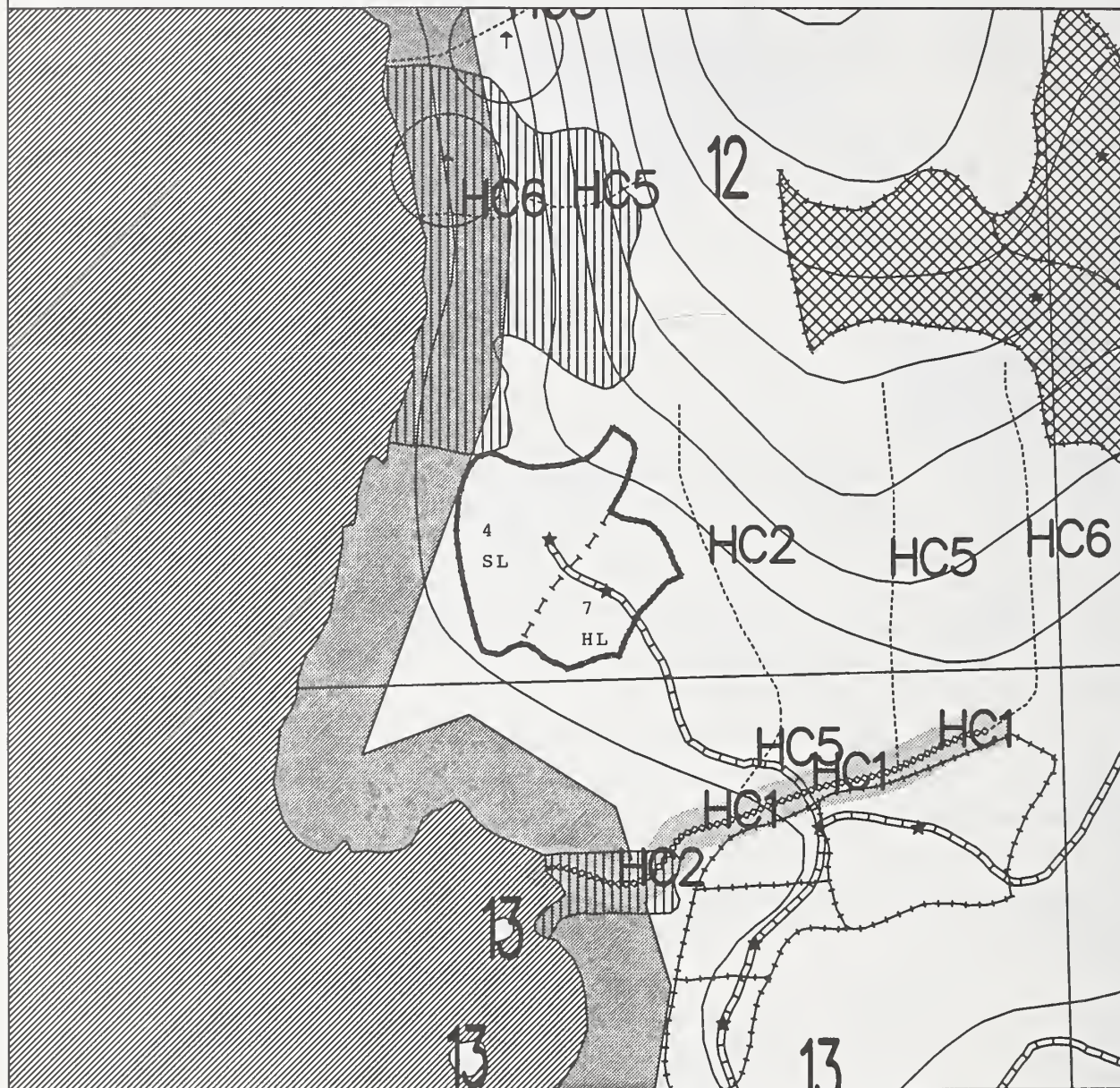
There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6001

PLANNED HARVEST UNIT MAP

ACRES: 24 VOLUME: 600 MBF QUAD(s): KTND6 QUARTER QUAD(s): _____
 PHOTO NUM.: 1179-20 LANDNET INFO TOWNSHIP 70S RANGE 89E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following
 intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 EAGLE TREE (upward arrow)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

SL SLACKLINE
 HL HIGHLEAD

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 09, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6002</u>	No. Settings <u>4</u>	Alternatives considered <u>2 4 5 6</u>	VQO <u>M</u>
Planned acres <u>44</u>		Quad <u>KTND6SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1261</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>WDC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-39</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 19 acres VC5 25 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 44 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 8 acres Medium 36 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 43 Mixed 1 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has 44 acres that may require partial or full suspension (BMP 13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 7 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nest site is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the BEHM/NW NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

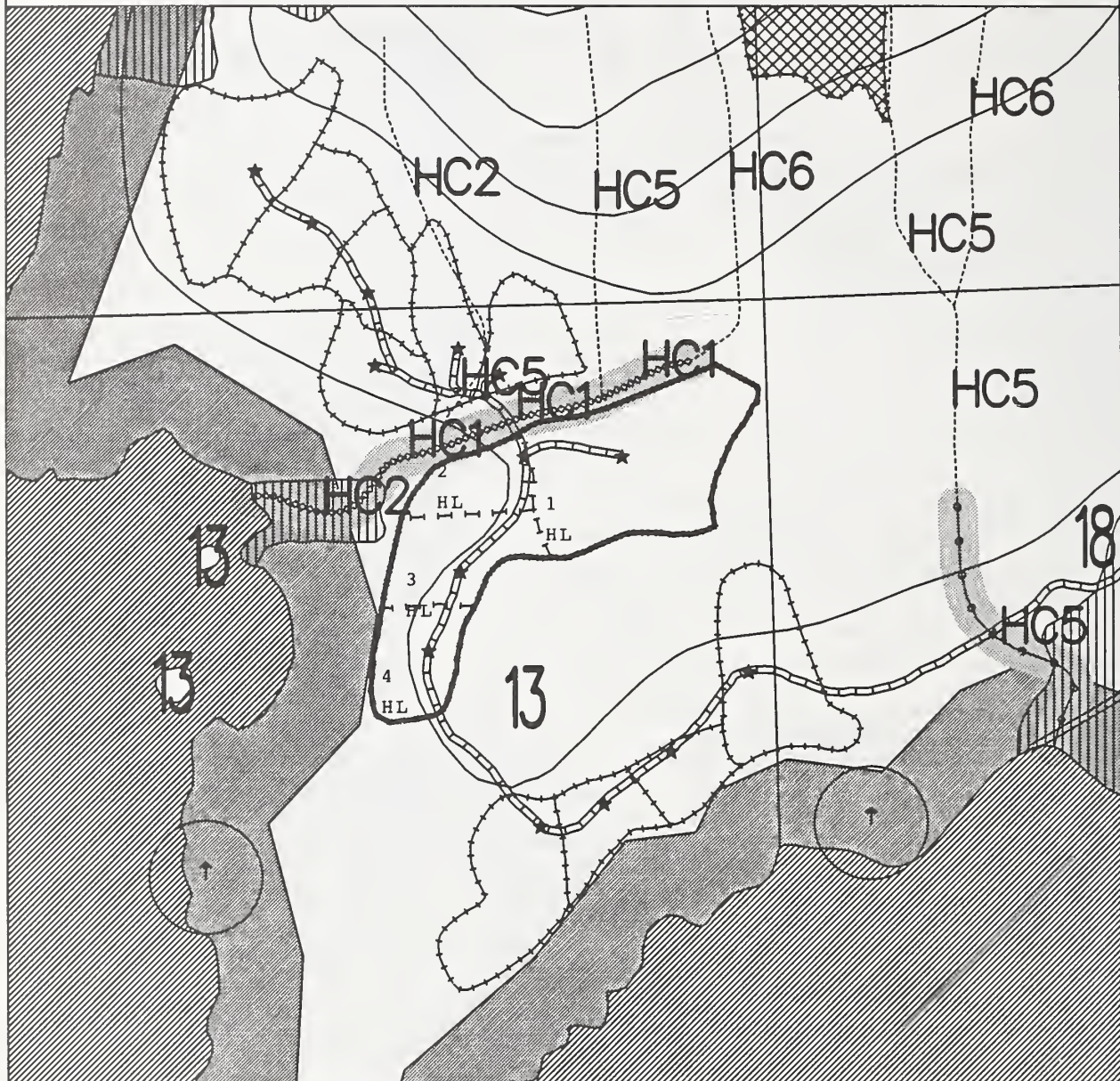
There are no geological mitigation measures anticipated for this unit.

VCU: 7360 UNIT NUMBER: 6002

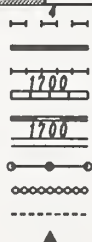
PLANNED HARVEST UNIT MAP

ACRES: 44 VOLUME: 1261 MBP QUAD(s): KTND6 QUARTER QUAD(s): _____
 PHOTO NUM.: 1179-39 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGH LEAD

SHELTERWOOD

HARVEST

BEACH BUFFER



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6003</u>	No. Settings <u>2</u>	Alternatives considered <u>2 4 6</u>	VQO <u>M</u>
Planned acres <u>72</u>		Quad <u>KTND6SEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2258</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>CCD</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Shelter wood</u>		1981 Photo <u>1179-38</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 72 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 2 acres 800-1200 ft. 23 acres 1200-1500 ft. 43 acres over 1500 ft. 4 acres
Mass movement index: Low 10 acres Medium 0 acres High 62 acres Very High 0 acres
Cedar 0 Hemlock 65 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect East

SOILS

This unit has 72 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 56 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 3 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the BEHM/NW NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

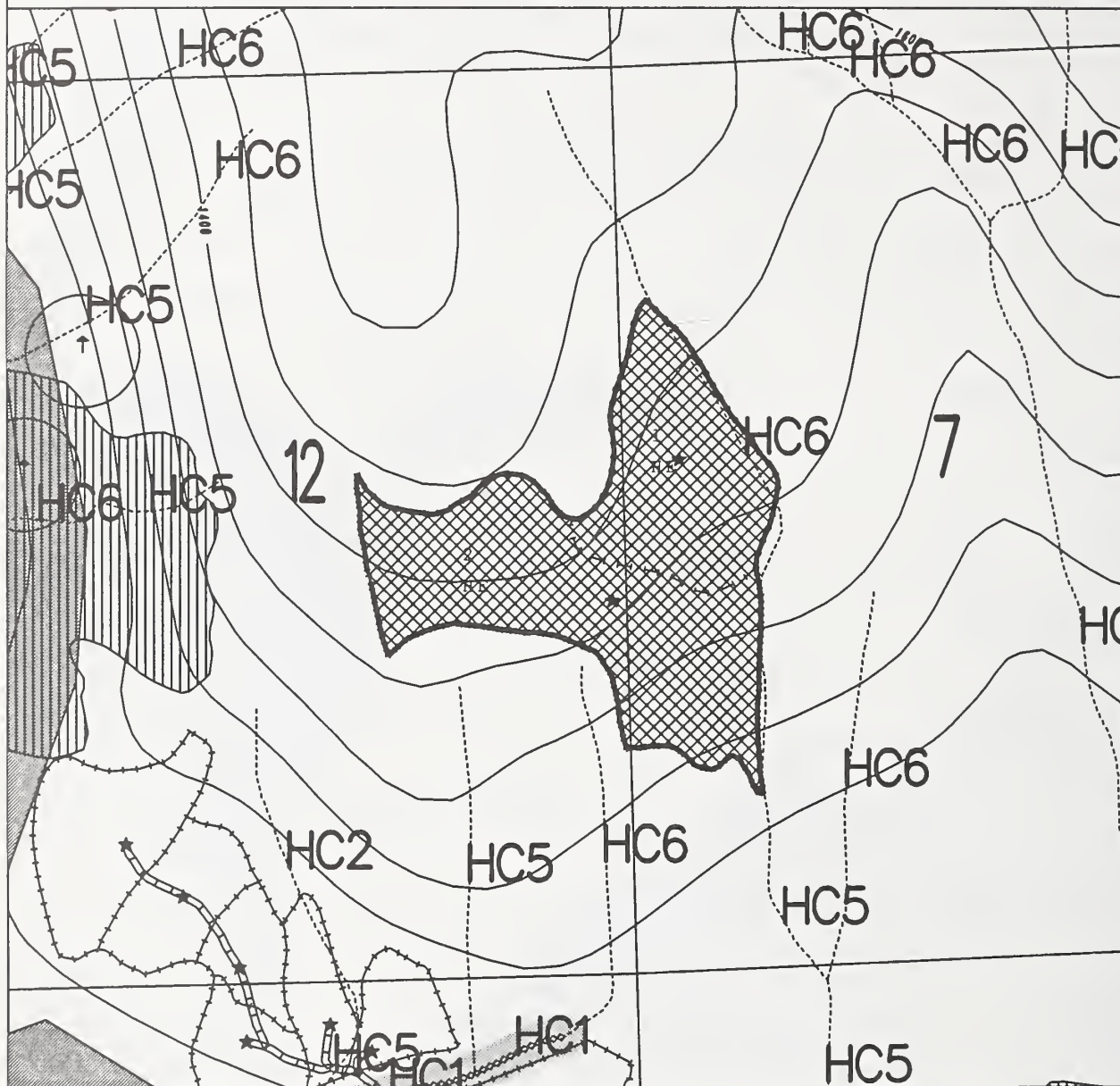
There are no geological mitigation measures anticipated for this unit.

VCU: 7360 UNIT NUMBER: 6003

PLANNED HARVEST UNIT MAP

ACRES: 72 VOLUME: 2258 MBP QUAD(s): KTND6 QUARTER QUAD(s): SEN /
 PHOTO NUM.: 1179-38 LANDNET INFO TOWNSHIP 70S RANGE 89E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

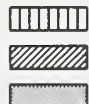
LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HE HELICOPTER

SHELTERWOOD

HARVEST

BEACH BUFFER



July 09, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6004</u>	No. Settings <u>5</u>	Alternatives considered <u>2 4</u>	VQO <u>M</u>
Planned acres <u>78</u>		Quad <u>KTND6SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2311</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>CCD</u>
Logging methods <u>HL SL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-39</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 21 acres VC5 57 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 76 acres 800-1200 ft. 2 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 17 acres Medium 7 acres High 54 acres Very High 0 acres
Cedar 0 Hemlock 76 Mixed 1 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 77 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 20 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Replanting of yellow and red cedar should be considered.
Recommendation is to perform a prescribed burn after harvest is completed to promote regeneration.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nestsite is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the BEHM/NW NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

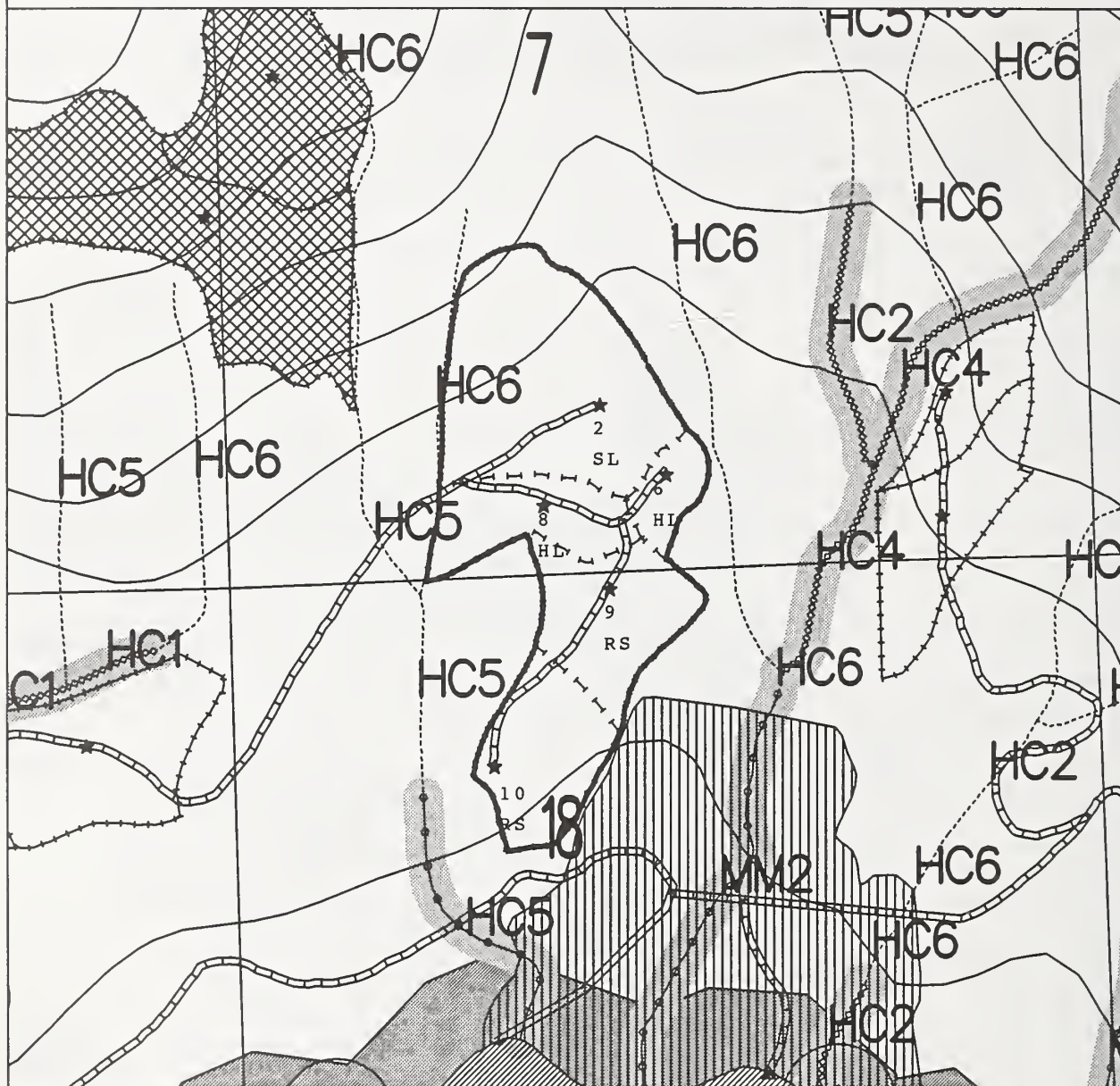
There are no geological mitigation measures anticipated for this unit.

VCU: 7360 UNIT NUMBER: 6004

PLANNED HARVEST UNIT MAP

ACRES: 78 VOLUME: 2311 MBP QUAD(s): KTND6 QUARTER QUAD(s): SEN /
 PHOTO NUM.: 1179-39 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

SL SLACKLINE

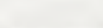
HL HIGHLEAD

RS RUNNING SKYLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



June 30, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6005</u>	No. Settings <u>2</u>	Alternatives considered <u>2</u>	VQO <u>M</u>
Planned acres <u>24</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>753</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>WDC</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-38</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 24 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 19 acres 800-1200 ft. 5 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 2 acres High 22 acres Very High 0 acres
Cedar 0 Hemlock 0 Mixed 24 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction on 0.20 miles of road
and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of
Bald Eagle nest site. If nest site is active follow the intra-agency agreement
agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the BEHM/NW NEETS BAY viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

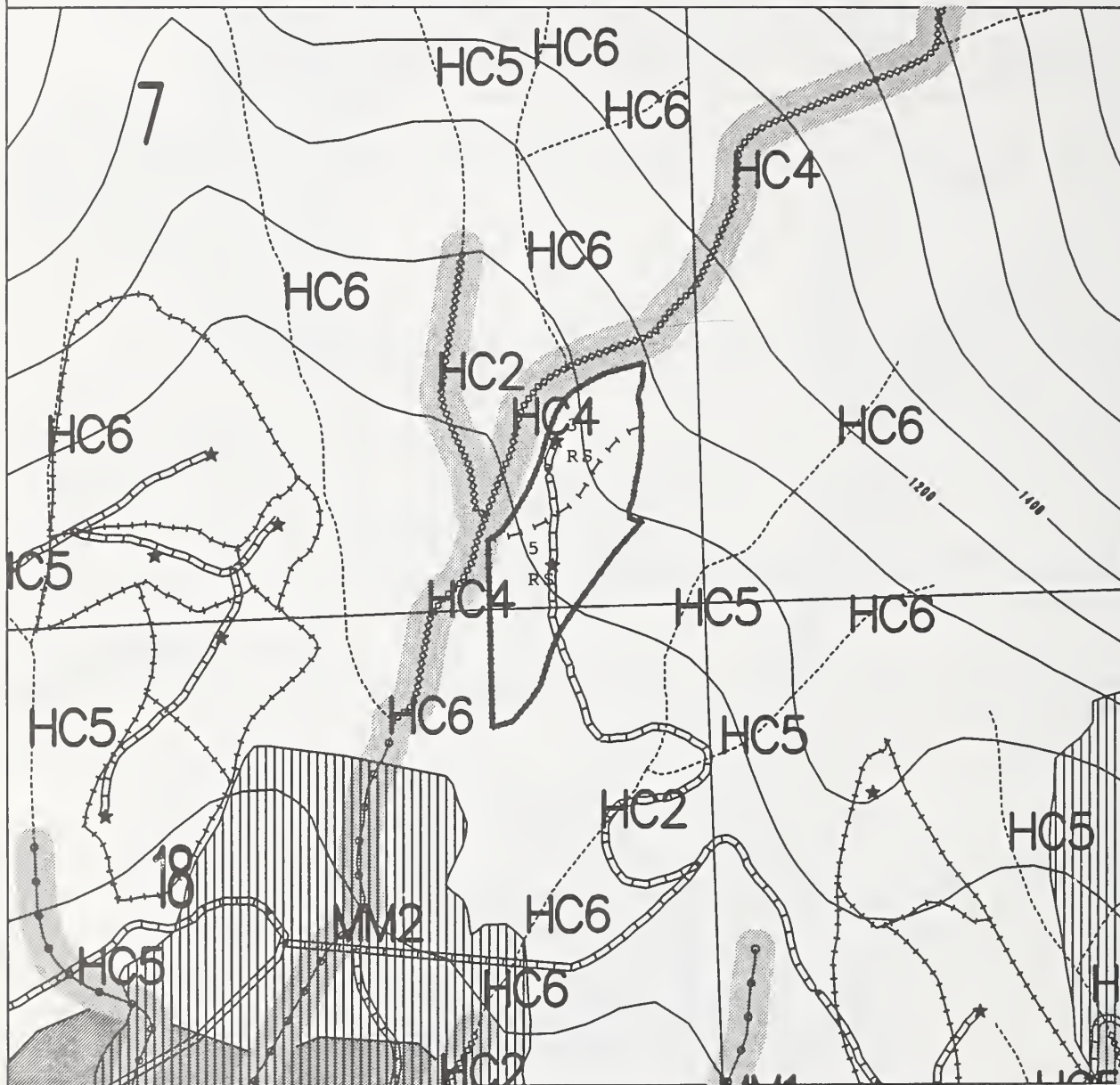
There are no geological mitigation measures anticipated for this unit.

VCU: 7360 UNIT NUMBER: 6005

PLANNED HARVEST UNIT MAP

ACRES: 24 VOLUME: 753 MBP QUAD(~~K~~END5/KTND6) QUARTER QUAD(s): SWS/
 PHOTO NUM.: 1179-37 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design at the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

RS RUNNING SKYLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



July 01, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6006</u>	No. Settings <u>3</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>53</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1484</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>WHS</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-75</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 41 acres VC5 12 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 53 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 53 acres High 1 acres Very High 0 acres
Cedar 0 Hemlock 52 Mixed 1 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 53 acres that may require partial or full suspension (BMP 13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Oversteepened slopes may require full bench construction on 0.10 miles of road
and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of
Bald Eagle nest site. If nestsite is active follow the intra-agency agreement
agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the BEHM/NW NEETS BAY viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

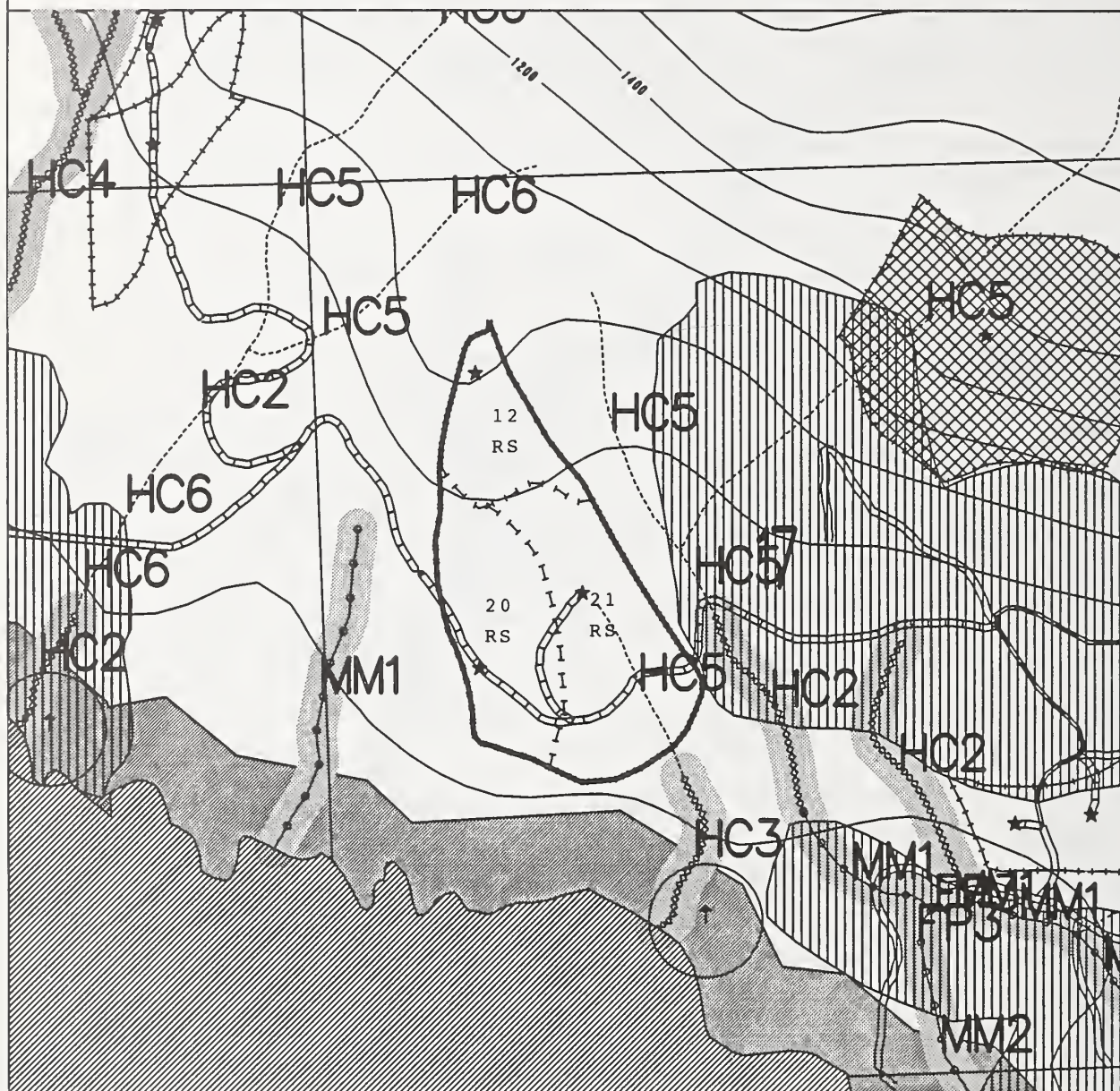
There are no geological mitigation measures anticipated for this unit.

VCU: 7360 UNIT NUMBER: 6006

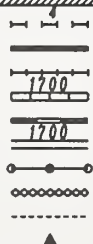
PLANNED HARVEST UNIT MAP

ACRES: 53 VOLUME: 1484 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-75 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following
 intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BACLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE



SHELTERWOOD

HARVEST

BEACH BUFFER



July 01, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6007</u>	No. Settings <u>1</u>	Alternatives considered <u>2 4 6</u>	VQO <u>MM</u>
Planned acres <u>48</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1339</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>CCD</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Shelter wood</u>		1981 Photo <u>1179-75</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 26 acres VC5 22 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 2 acres 800-1200 ft. 23 acres 1200-1500 ft. 23 acres over 1500 ft. 0 acres
Mass movement index: Low 20 acres Medium 3 acres High 25 acres Very High 0 acres
Cedar 0 Hemlock 40 Mixed 7 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 48 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 28 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 19 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the BEHM/NW NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

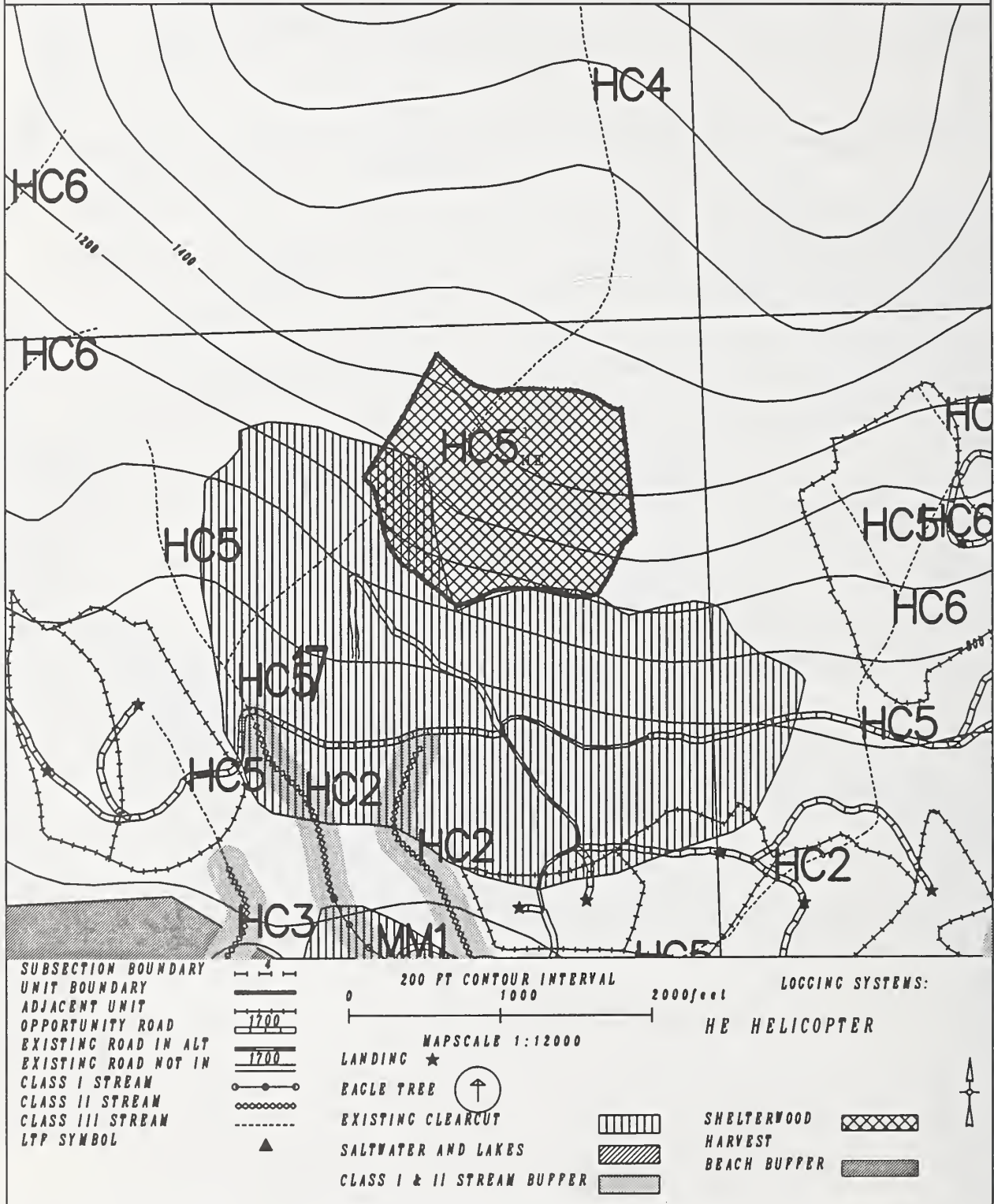
There are no geological mitigation measures anticipated for this unit.

VCU: 7360 UNIT NUMBER: 6007

PLANNED HARVEST UNIT MAP

ACRES: 48 VOLUME: 1339 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-75 LANDNET INFO TOWNSHIP 70S RANCR 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following
 intended design of the harvest unit and associated roads.



July 01, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6008</u>	No. Settings <u>5</u>	Alternatives considered <u>2 3 6</u>	VQO <u>MM</u>
Planned acres <u>74</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2047</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>CMB</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-75</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 43 acres VC5 31 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 74 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 52 acres Medium 22 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 68 Mixed 6 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 74 acres that may require partial or full suspension (BMP 13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 73 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nestsite is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Maintain adequate distribution of snags by leaving 0.1 acre-sized patches of green trees within the unit for every 10 acres harvested. Snag patches must be compatible with logging system and safe working conditions.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the BEHM/NW NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6008

PLANNED HARVEST UNIT MAP

ACRBS: 74VOLUME: 2047

MBP

QUAD(s): KTND5QUARTER QUAD(s): SWS

PHOTO NUM.:

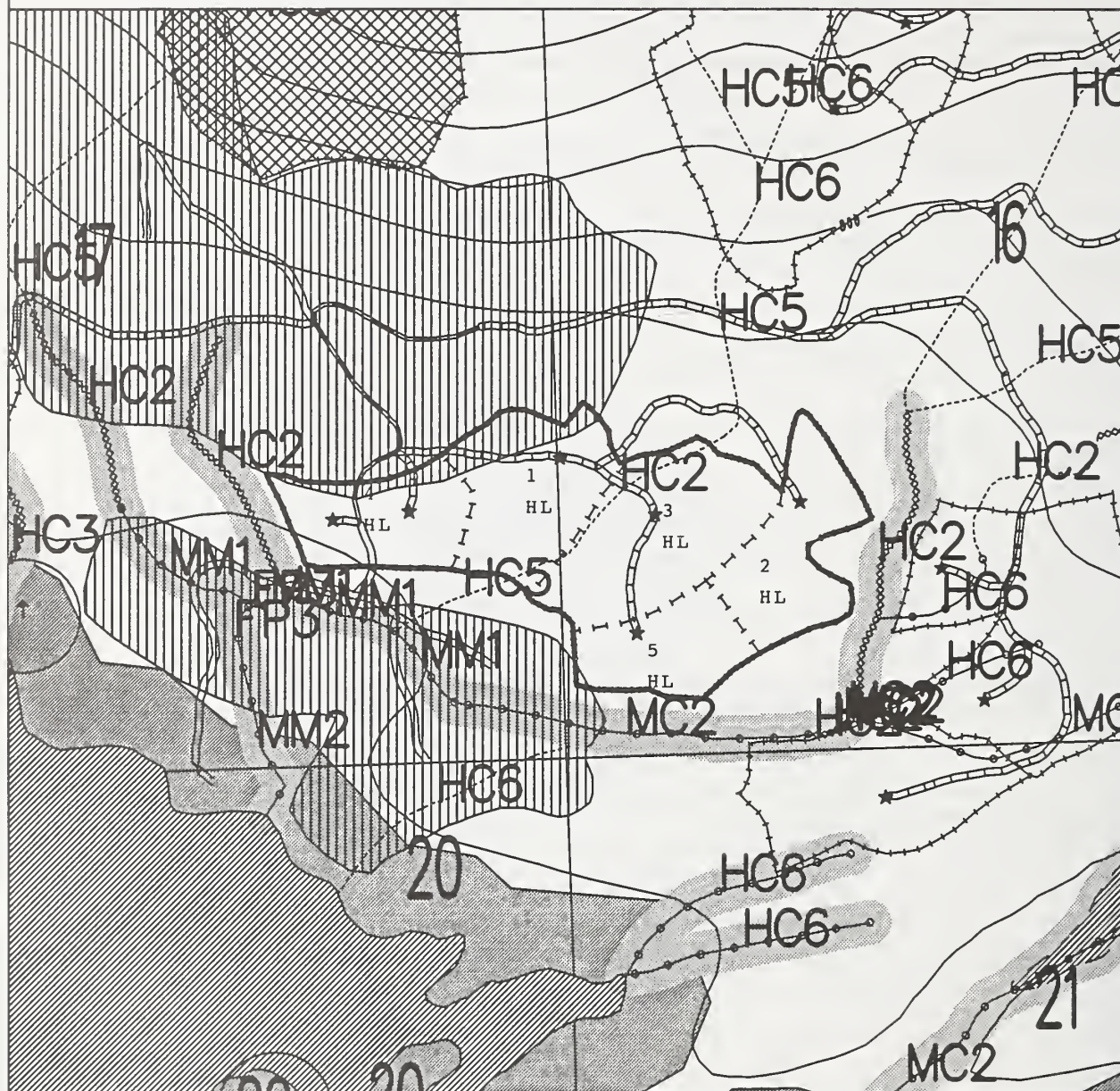
1179-75

LANDNET INFO

TOWNSHIP

70SRANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



0 200 FT CONTOUR INTERVAL 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

BAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGH LEAD



SHELTERWOOD
HARVEST
BEACH BUFFER



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6009</u>	No. Settings <u>5</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>61</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1779</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>CCS</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-102</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 21 acres VC5 40 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 61 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 53 acres Medium 8 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 61 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 61 acres that may require partial or full suspension (BMP 13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 10 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

This unit contains 1 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Oversteepened slopes may require full bench construction on 0.03 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nestsite is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the BEHM/NW NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.

There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6009

PLANNED HARVEST UNIT MAP

ACRES: 61VOLUME: 1779

MBP

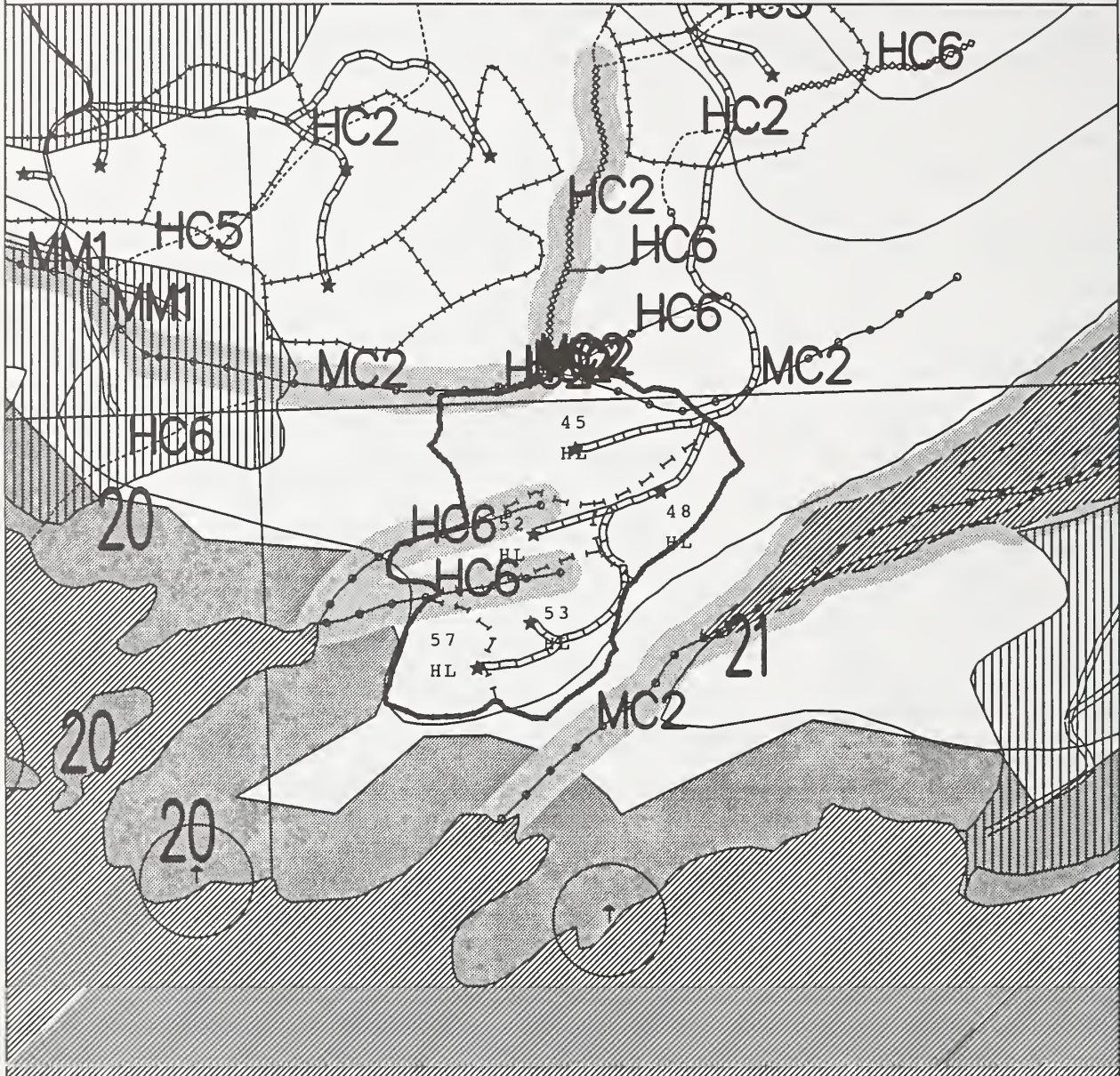
QUAD(s): KTND5QUARTER QUAD(s): SWSPHOTO NUM.: 1179-102

LANDNET INFO

TOWNSHIP

70SRANGR 90R

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGHLEAD



SHELTERWOOD

HARVEST

BEACH BUFFER



July 09, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6010</u>	No. Settings <u>3</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>76</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2160</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>CCS</u>
Logging methods <u>HL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-101</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 35 acres VC5 41 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 39 acres 800-1200 ft. 37 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 33 acres Medium 13 acres High 30 acres Very High 0 acres
Cedar 0 Hemlock 76 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has 76 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 39 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction on 0.14 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the BEHM/NW NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

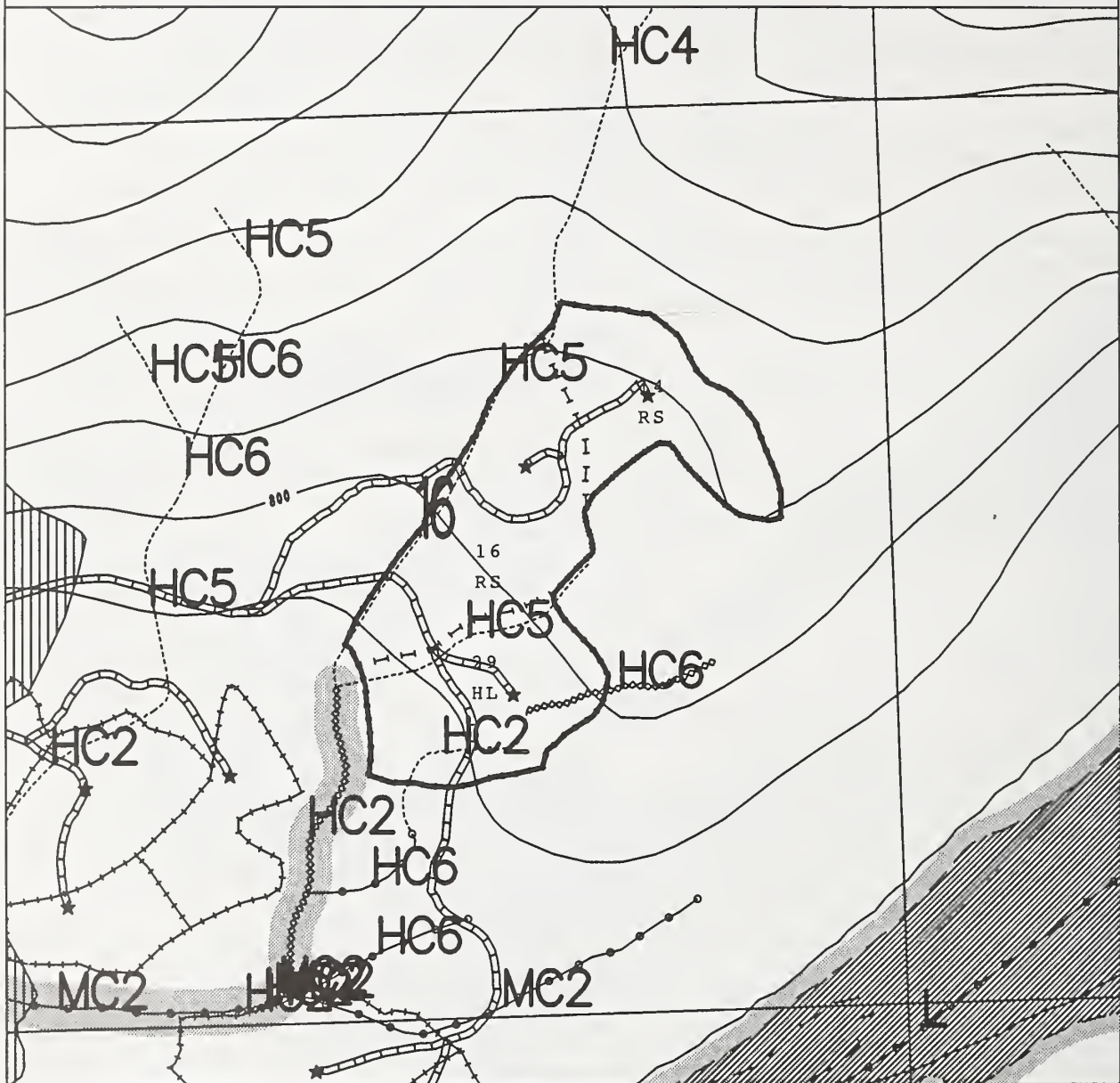
There are no geological mitigation measures anticipated for this unit.

VCU: 7360 UNIT NUMBER: 6010

PLANNED HARVEST UNIT MAP

ACRES: 76 VOLUME: 2160 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-101 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★
 BACLE TREE (↑)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUPPER



LOGGING SYSTEMS:

RS RUNNING SKYLINE
 HL HIGHLEAD

SHELTERWOOD
 HARVEST
 BEACH BUPPER



July 01, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6011</u>	No. Settings <u>8</u>	Alternatives considered <u>2</u>	<u>6</u>	VQO <u>MM</u>
Planned acres <u>49</u>		Quad <u>KTND5SWS</u>		Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1383</u>		Mgmt Area <u>K32</u>	VCU <u>7360</u>	Plant Series <u>CCS</u>
Logging methods <u>HE</u>		WAA <u>510</u>		Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-137</u>		

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 24 acres VC5 25 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 49 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 33 acres High 16 acres Very High 0 acres
Cedar 0 Hemlock 49 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has 49 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 9 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

This unit contains 33 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Maintain adequate distribution of snags by leaving 0.1 acre-sized patches of green trees within the unit for every 10 acres harvested. Snag patches must be compatible with logging system and safe working conditions.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the INNER NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.

There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

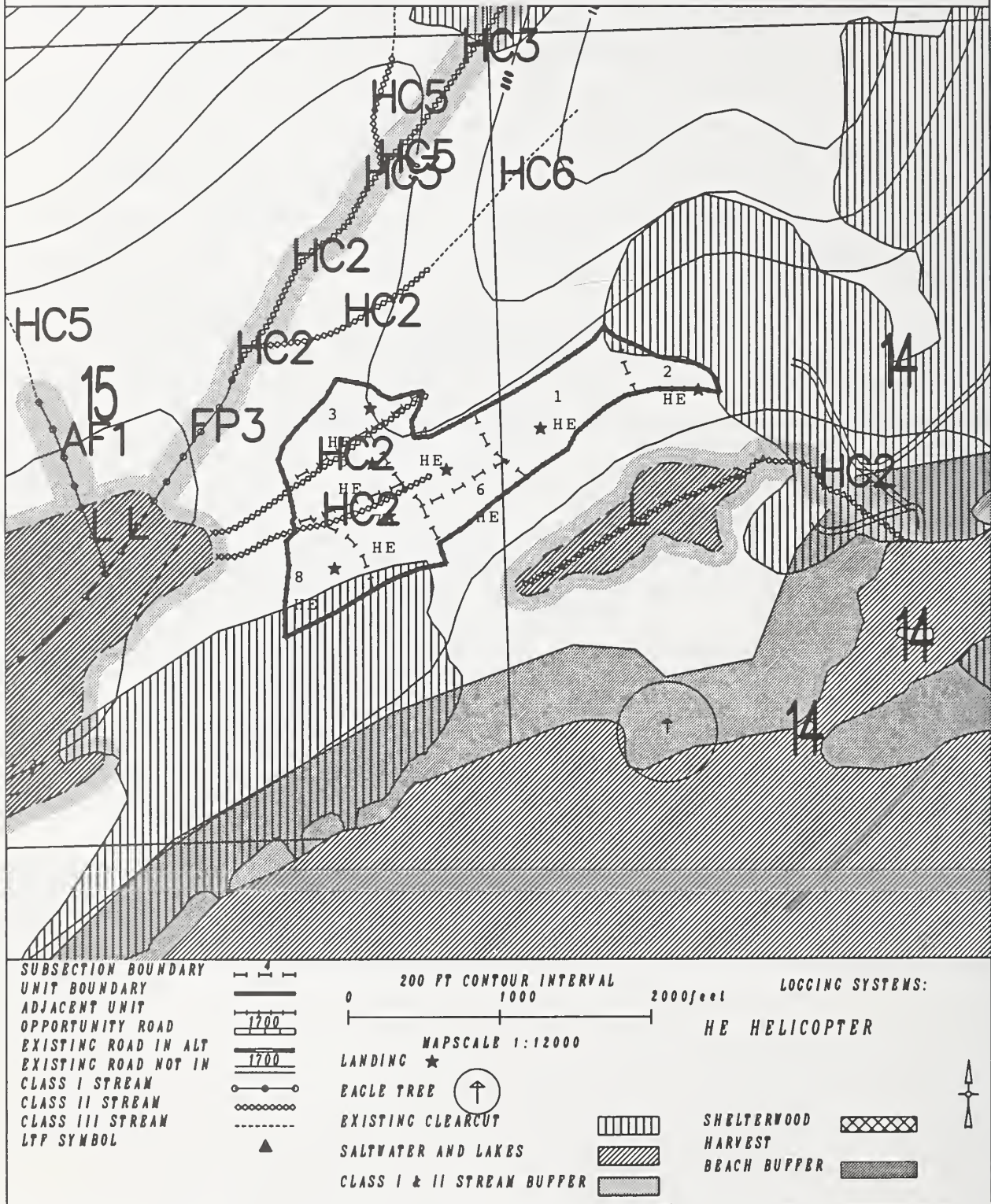
There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6011

PLANNED HARVEST UNIT MAP

ACRES: 49 VOLUME: 1383 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-137 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 09, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6012</u>	No. Settings <u>4</u>	Alternatives considered <u>2</u>	VQO <u>M</u>
Planned acres <u>54</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1522</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>CCD</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-104</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 27 acres VC5 27 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 50 acres 800-1200 ft. 4 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 13 acres Medium 0 acres High 41 acres Very High 0 acres
Cedar 0 Hemlock 53 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has 53 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit contains 31 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 2 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction on 0.08 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 3 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the INNER NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6012

PLANNED HARVEST UNIT MAP

ACRES: 54VOLUME: 1522

MBP

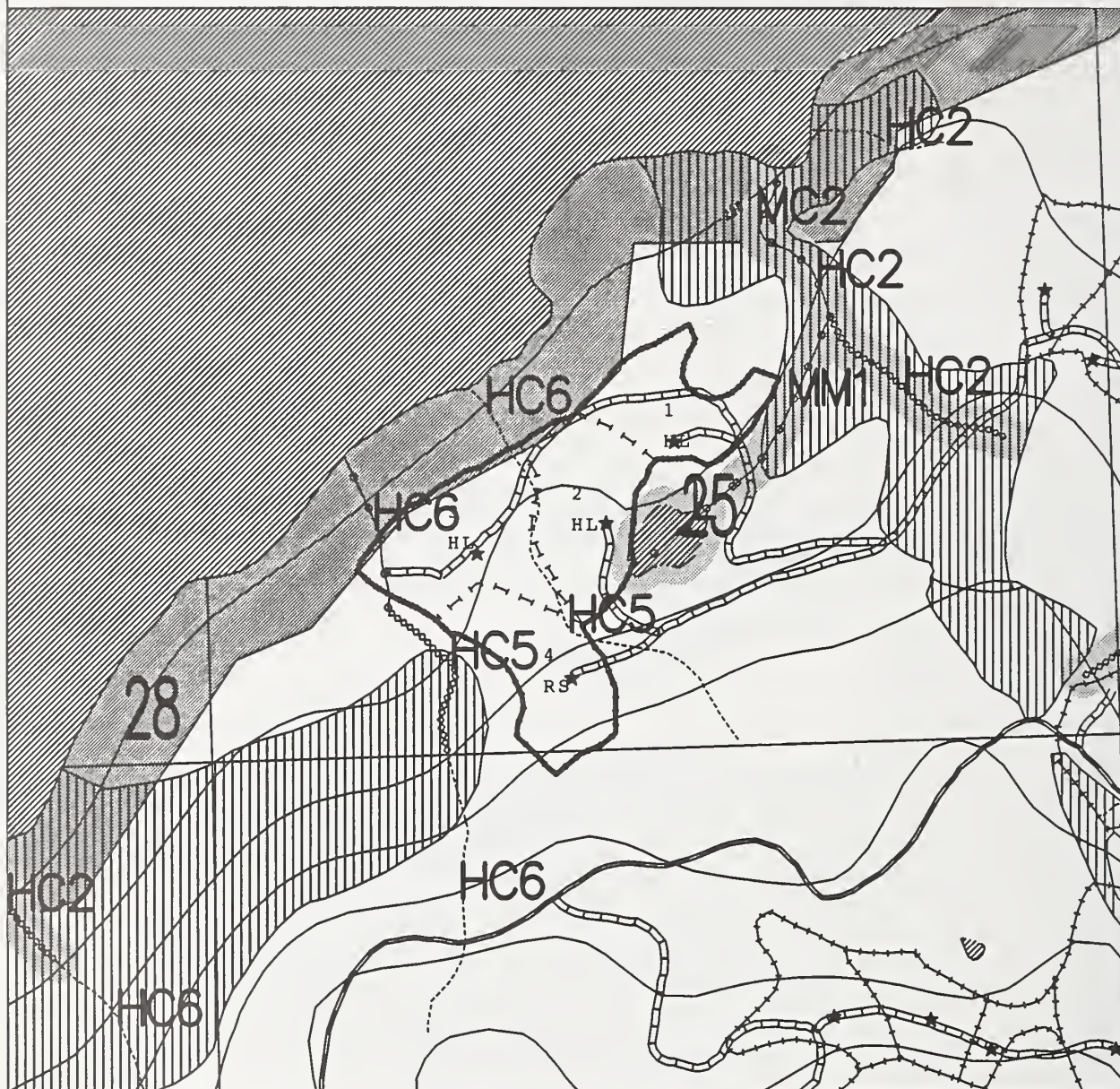
QUAD(s): KTND5QUARTER QUAD(s): SWSPHOTO NUM.: 1179-104

LANDNET INFO

TOWNSHIP

70SRANGR 90R

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
EAGLE TREE (upward arrow)
EXISTING CLEARCUT
SALTWATER AND LAKES
CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGHLEAD
RS RUNNING SKYLINE

SHELTERWOOD
HARVEST
BEACH BUFFER



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6013</u>	No. Settings <u>7</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>56</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1642</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>CMB</u>
Logging methods <u>HL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-133</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 17 acres VC5 39 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 3 acres 1200-1500 ft. 30 acres over 1500 ft. 23 acres
Mass movement index: Low 0 acres Medium 10 acres High 46 acres Very High 0 acres
Cedar 0 Hemlock 51 Mixed 5 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has 56 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 6 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

This unit contains 11 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Replanting of yellow cedar should be considered.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).
Oversteepened slopes may require full bench construction on 1.07 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the INNER NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

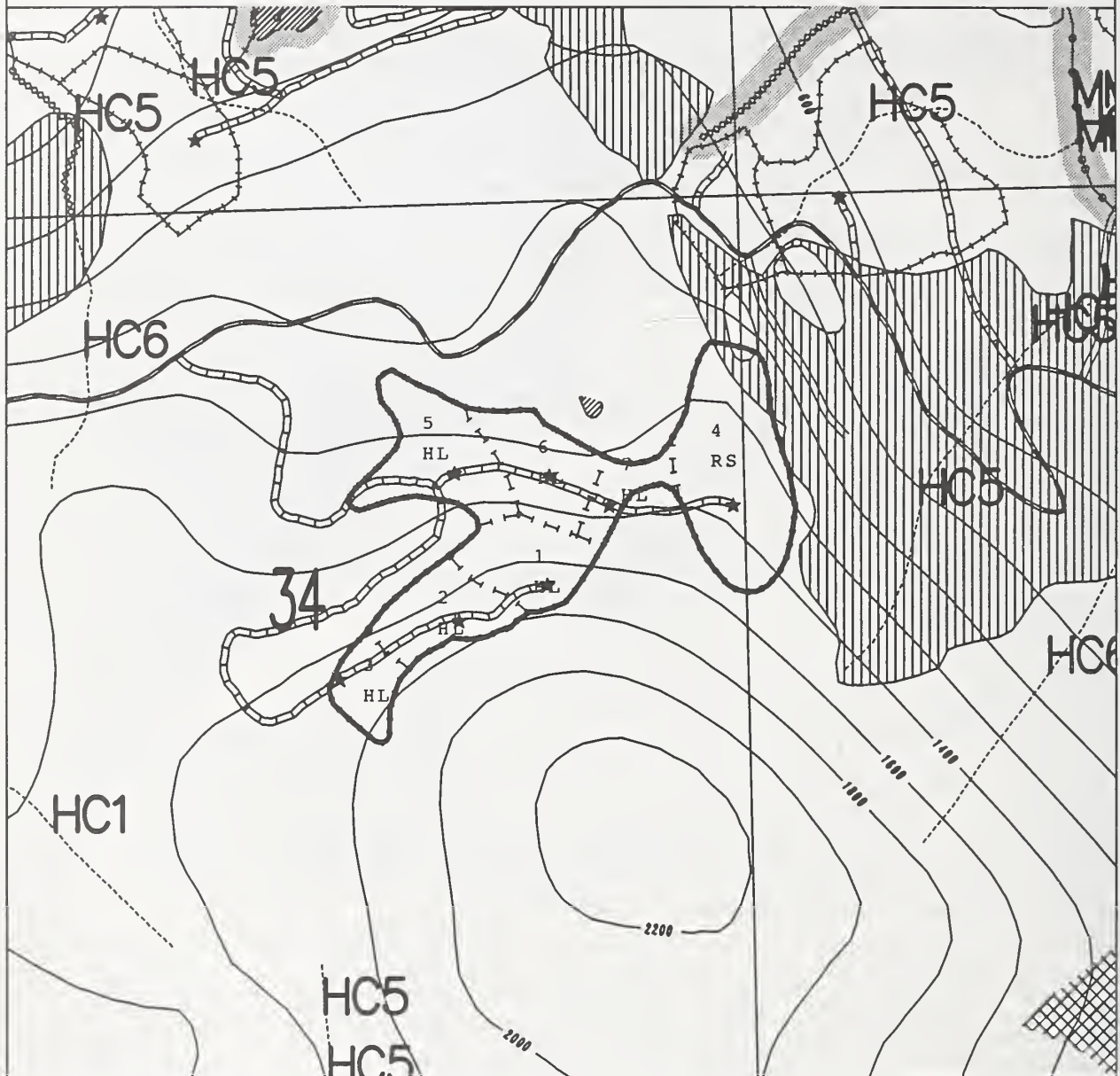
There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6013

PLANNED HARVEST UNIT MAP

ACRES: 56 VOLUME: 1642 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-133 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

BACLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUPPER

LOGGING SYSTEMS:

HL HIGHLEAD

RS RUNNING SKYLINE

SHELTERWOOD

HARVEST

BEACH BUPPER



July 01, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6014</u>	No. Settings <u>3</u>	Alternatives considered <u>2</u> <u>4</u>	VQO <u>M</u>
Planned acres <u>39</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1007</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>WHS</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-104</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 32 acres VC5 7 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 1 acres 800-1200 ft. 12 acres 1200-1500 ft. 19 acres over 1500 ft. 7 acres
Mass movement index: Low 0 acres Medium 0 acres High 39 acres Very High 0 acres
Cedar 0 Hemlock 34 Mixed 5 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has 39 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 22 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).
Oversteepened slopes may require full bench construction on 0.32 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the INNER NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

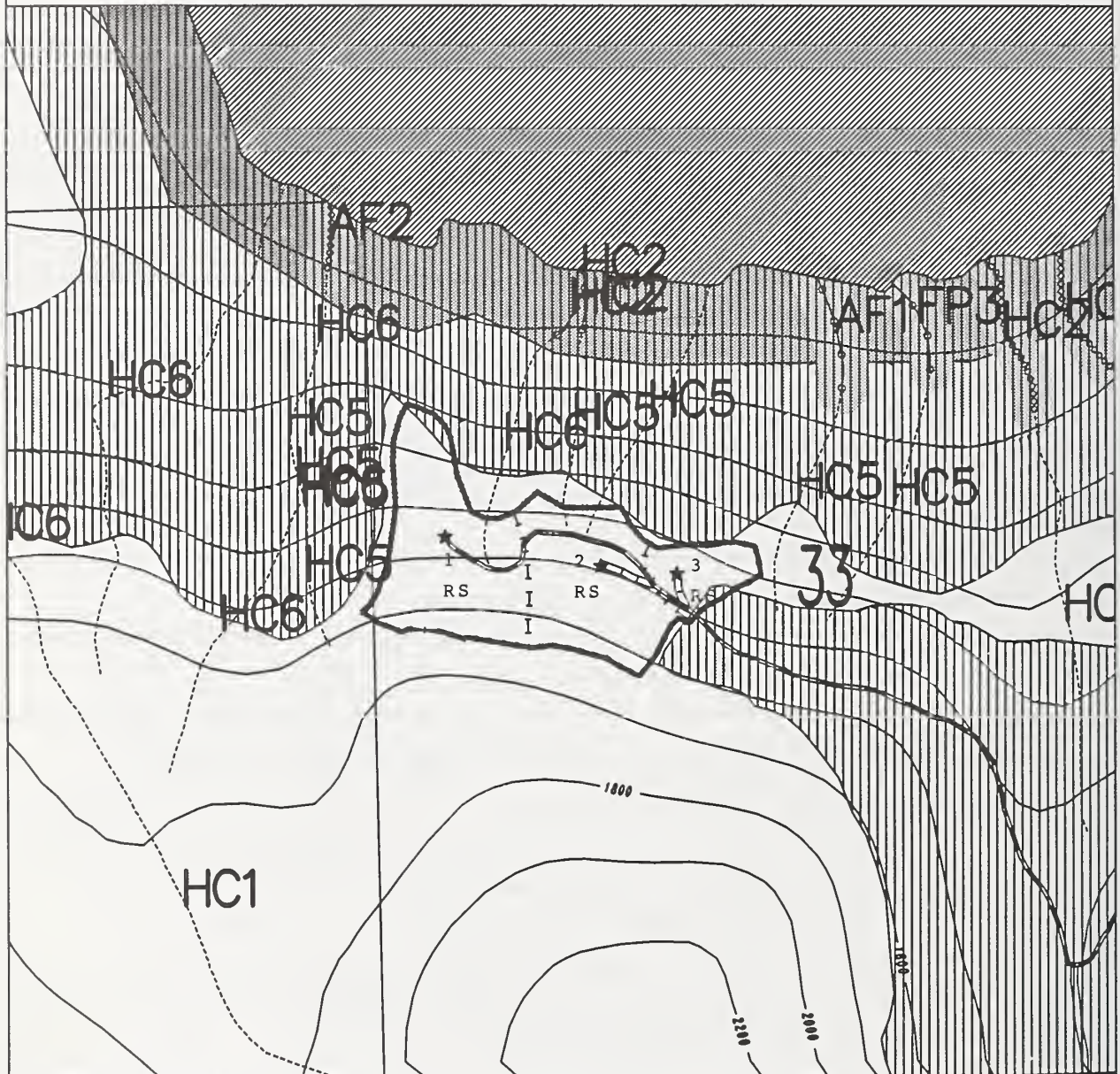
There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6014

PLANNED HARVEST UNIT MAP

ACRES: 39 VOLUME: 1007 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-104 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (upward arrow in circle)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE



SHELTERWOOD

HARVEST

BEACH BUFFER



July 01, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6015</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u>	VQO <u>M</u>
Planned acres <u>24</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>869</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>CCS</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-68</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 12 acres VC6 12 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 8 acres over 1500 ft. 16 acres
Mass movement index: Low 7 acres Medium 0 acres High 17 acres Very High 0 acres
Cedar 0 Hemlock 0 Mixed 24 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has 24 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 10 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction on 0.05 miles of road
and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the BEHM/SW NEETS BAY viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

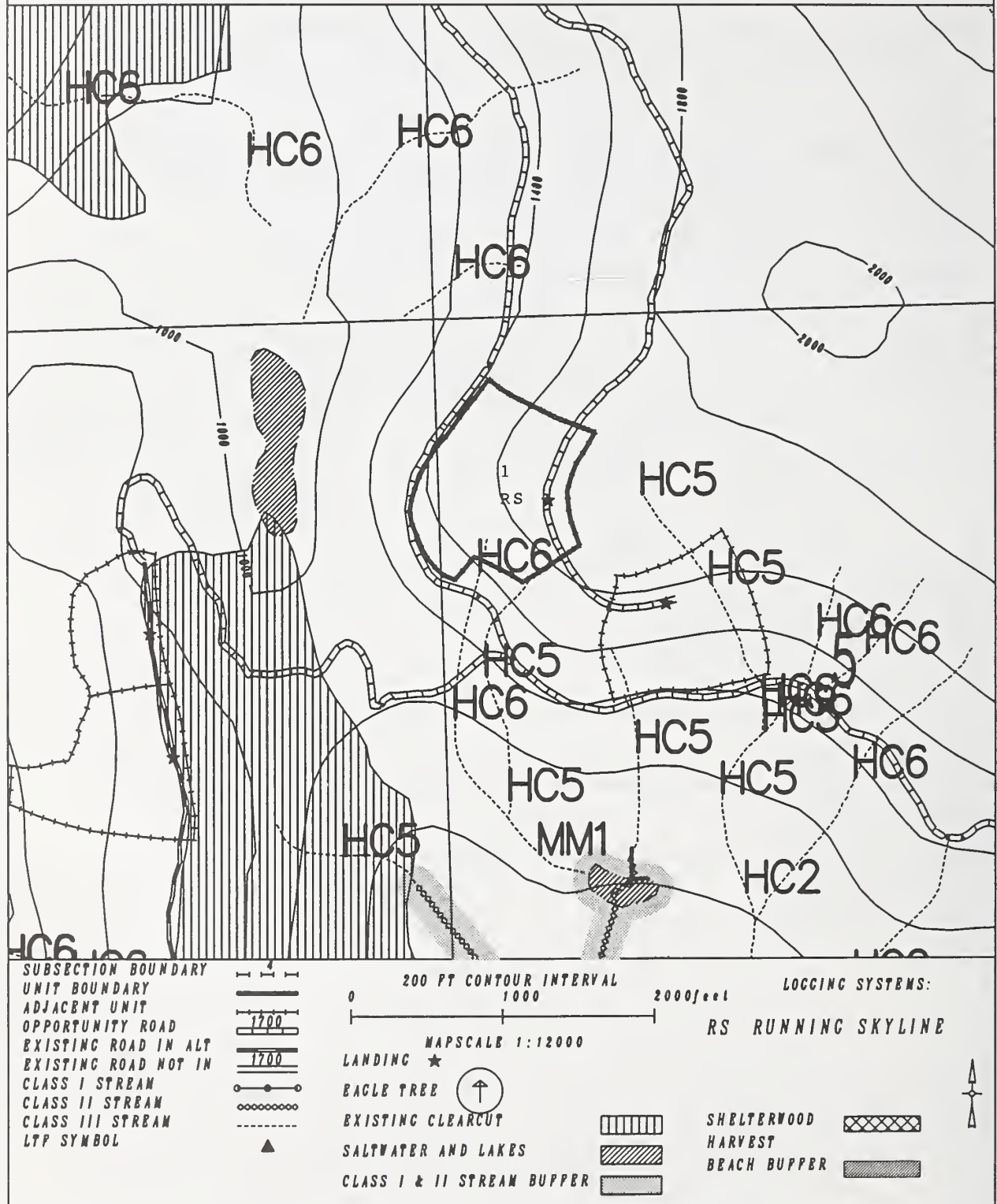
There are no geological mitigation measures anticipated for this unit.

VCU: 7360 UNIT NUMBER: 6015

PLANNED HARVEST UNIT MAP

ACRES: 24 VOLUME: 869 MBP QUAD(s): KTNC5 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-68 LANDNET INFO TOWNSHIP 71S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 01, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6016</u>	No. Settings <u>2</u>	Alternatives considered <u>2</u>	VQO <u>M</u>
Planned acres <u>30</u>	Quad <u>KTNC6NEN</u>		Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1087</u>	Mgmt Area <u>K32</u> VCU <u>7360</u>		Plant Series <u>WHC</u>
Logging methods <u>RS</u>	WAA <u>510</u>		Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>	1981 Photo <u>1179-46</u>		

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 15 acres VC6 15 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 1 acres 800-1200 ft. 14 acres 1200-1500 ft. 15 acres over 1500 ft. 0 acres
Mass movement index: Low 4 acres Medium 0 acres High 26 acres Very High 0 acres
Cedar 0 Hemlock 0 Mixed 27 Percent Seen 40 Percent Unseen 60 Aspect West

SOILS

This unit has 30 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 13 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction on 0.04 miles of road
and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the BEHM/SW NEETS BAY viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7360NORTH KEYVILLA PROJECT HARVEST UNIT DESIGN CARD
UNIT NUMBER: 6016

PLANNED HARVEST UNIT MAP

ACRES: 30VOLUME: 1087

MBF

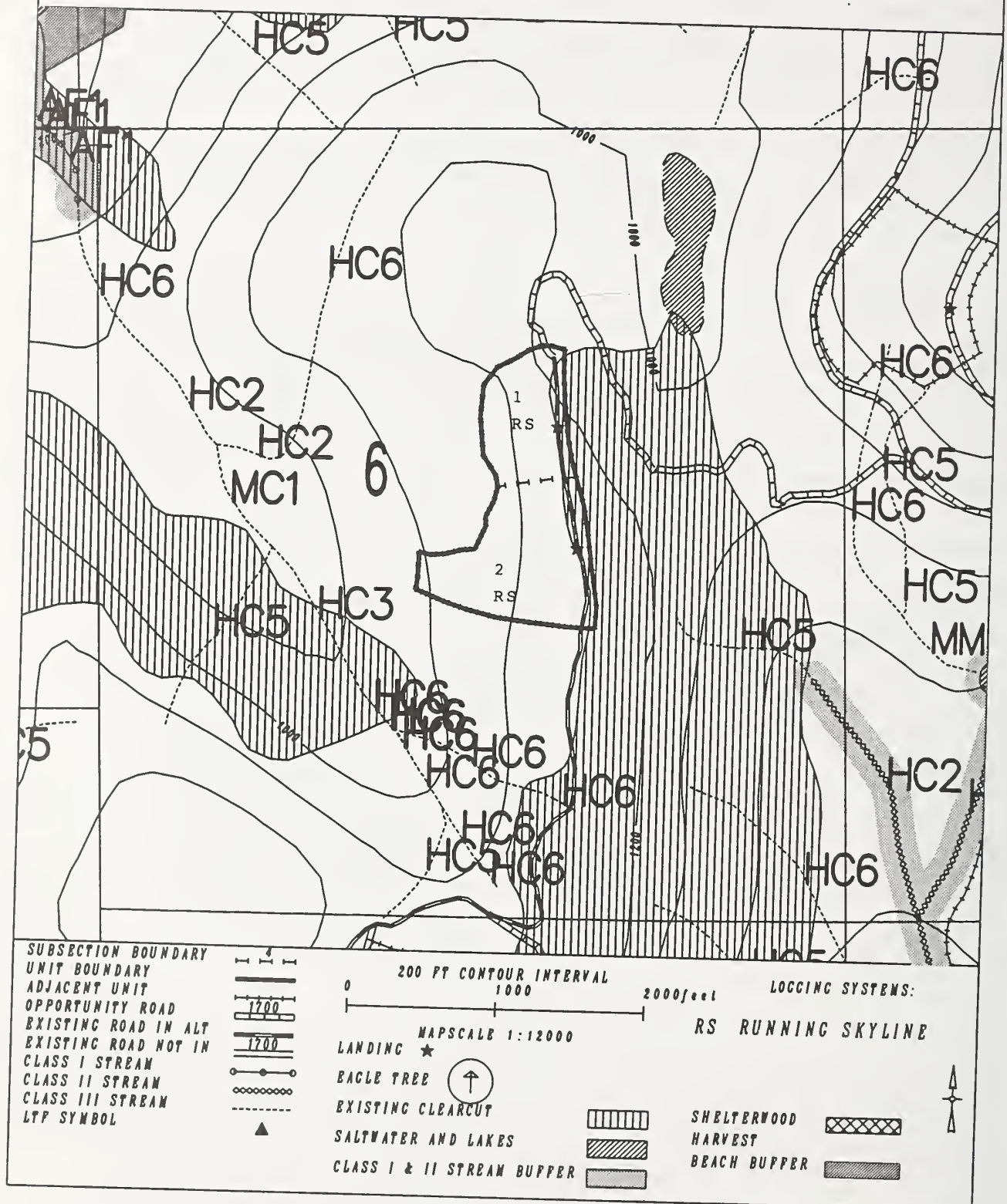
QUAD(s): KTNC6QUARTER QUAD(s): NWNPHOTO NUM. : 1179-

LANDNET INFO

TOWNSHIP

71SRANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 01, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6017</u>	No. Settings <u>3</u>	Alternatives considered <u>2</u> <u>3</u> <u>6</u>	VQO <u>MM</u>
Planned acres <u>24</u>		Quad <u>KTNC6NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>734</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>WHC</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-47</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 3 acres VC5 21 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 1 acres 800-1200 ft. 23 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 24 acres Very High 0 acres
Cedar 0 Hemlock 3 Mixed 17 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 24 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 21 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).
Oversteepened slopes may require full bench construction on 0.15 miles of road
and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the _____ viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

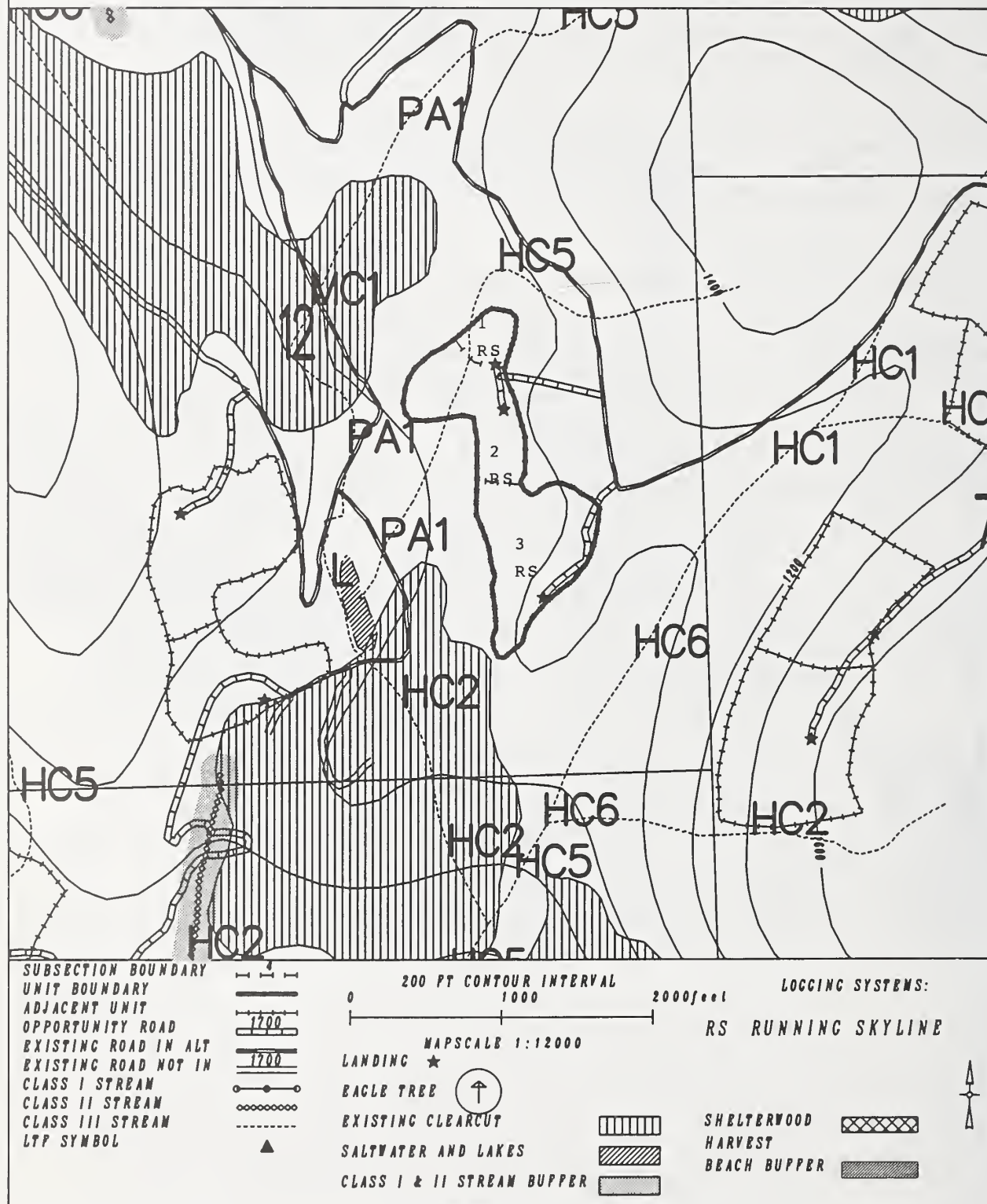
There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6017

PLANNED HARVEST UNIT MAP

ACRES: 24 VOLUME: 734 MBP QUAD(s): KTNC6 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-47 LANDNET INFO TOWNSHIP 71S RANGE 89E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 01, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6018</u>	No. Settings <u>2</u>	Alternatives considered <u>2</u>	VQO <u>M</u>
Planned acres <u>24</u>		Quad <u>KTNC6NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>600</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>CMM</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-47</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 24 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 8 acres 800-1200 ft. 16 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 22 acres Medium 1 acres High 1 acres Very High 0 acres
Cedar 0 Hemlock 19 Mixed 0 Percent Seen 21 Percent Unseen 79 Aspect West

SOILS

This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 12 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Oversteepened slopes may require full bench construction on 0.11 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the BEHM/SW NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6018

PLANNED HARVEST UNIT MAP

ACRES: 24VOLUME: 600

MBP

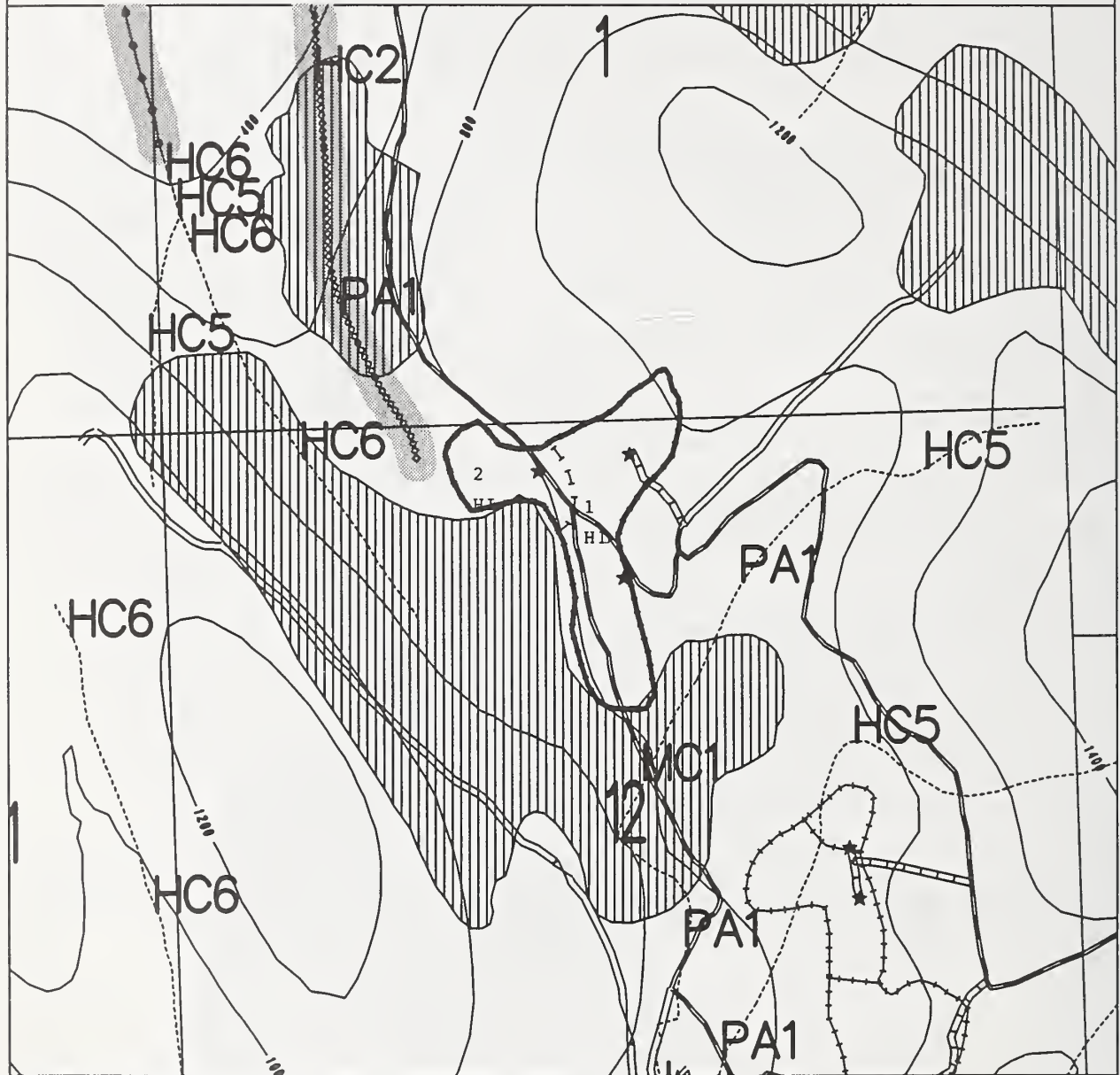
QUAD(s): KTNC6QUARTER QUAD(s): NWNPHOTO NUM.: 1179-12

LANDNET INFO

TOWNSHIP

71SRANGE 89E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BACLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGHLEAD



SHELTERWOOD



HARVEST



BEACH BUFFER



July 01, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6019</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u>	VQO <u>PR</u>
Planned acres <u>22</u>		Quad <u>KTND6SEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>690</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>WDC</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-23</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 22 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 16 acres 800-1200 ft. 6 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 2 acres Medium 2 acres High 18 acres Very High 0 acres
Cedar 0 Hemlock 21 Mixed 1 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has 22 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 2 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the BEHM/NW NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

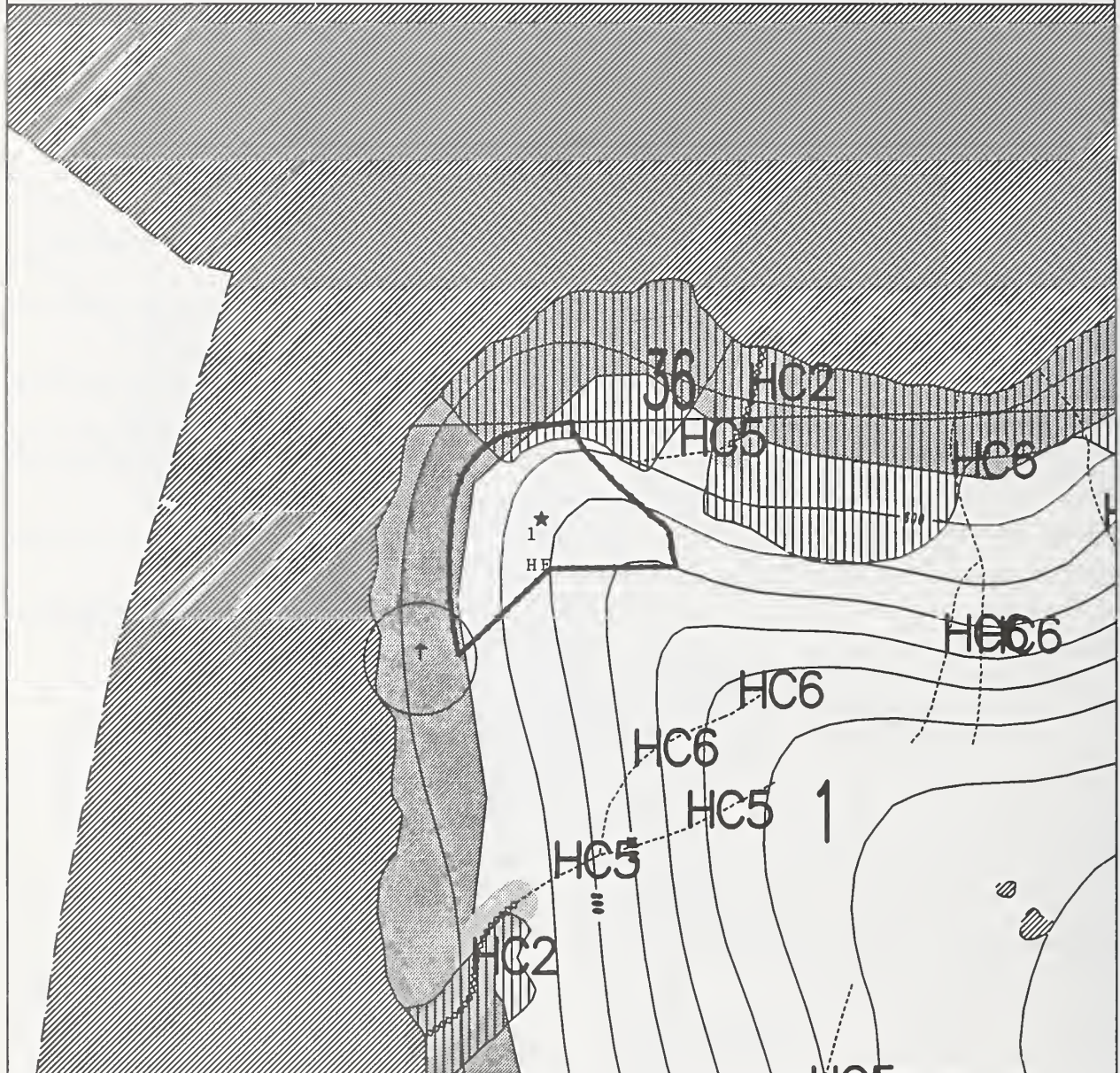
There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6019

PLANNED HARVEST UNIT MAP

ACRES: 22 VOLUME: 690 MBP QUAD(s): KTND6 QUARTER QUAD(s): SEN
 PHOTO NUM.: 1179-23 LANDNET INFO TOWNSHIP 69S RANGE 89E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BACLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HE HELICOPTER

SHELTERWOOD

HARVEST

BEACH BUFFER



July 01, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6020</u>	No. Settings <u>2</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>MM</u>
Planned acres <u>28</u>		Quad <u>KTNC6NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>707</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>CMC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-11</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 27 acres VC5 1 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 13 acres 800-1200 ft. 15 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 22 acres Medium 5 acres High 1 acres Very High 0 acres
Cedar 0 Hemlock 25 Mixed 0 Percent Seen 7 Percent Unseen 93 Aspect East

SOILS

This unit has 28 acres that may require partial or full suspension (BMP 13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 24 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the _____ viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

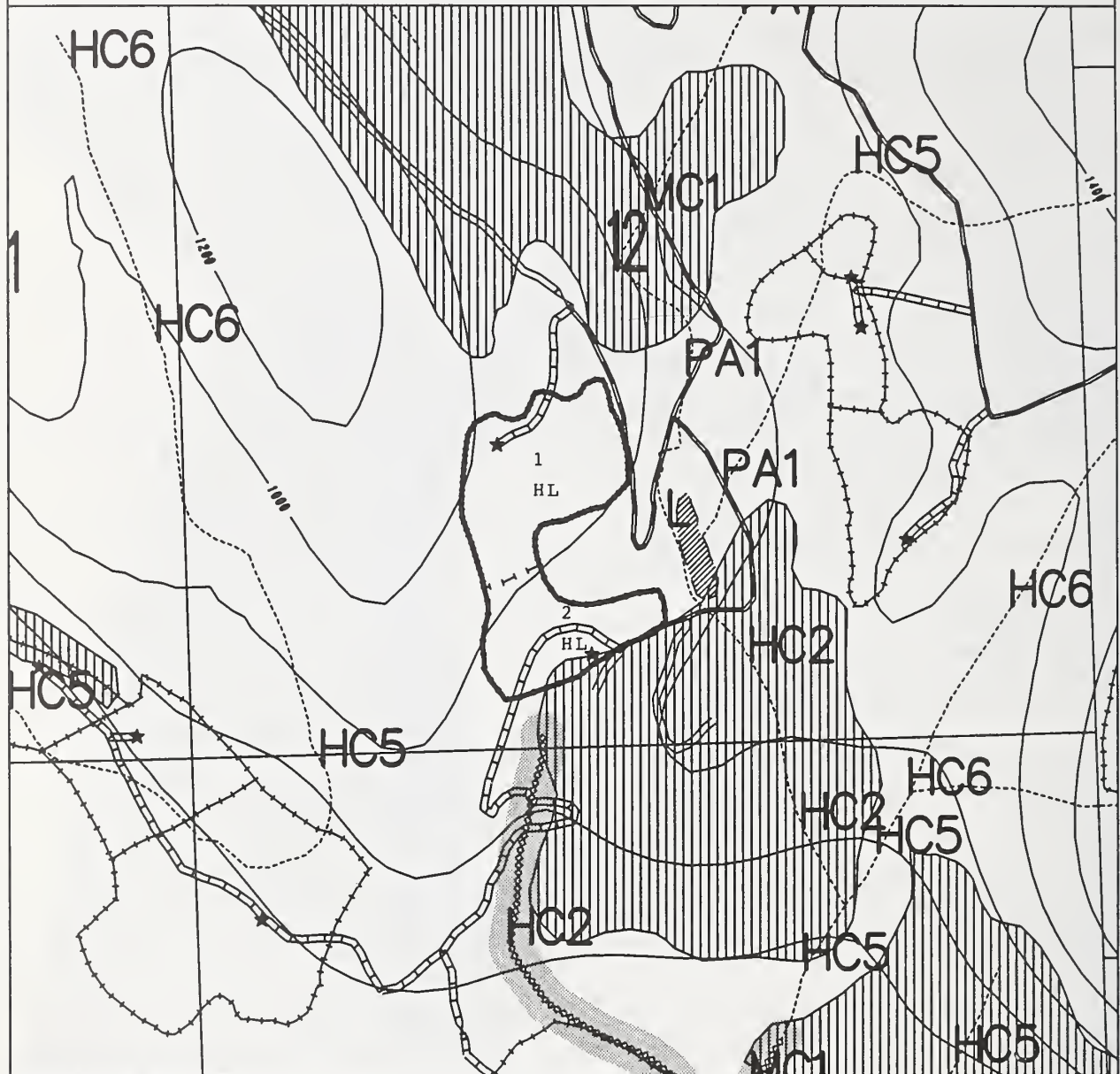
There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6020

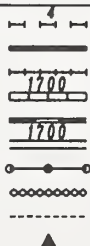
PLANNED HARVEST UNIT MAP

ACRES: 28 VOLUME: 707 MBP QUAD(s): KTNC6 QUARTER QUAD(s): NWN
 PHOTO NUM.: 1179-47 LANDNET INFO TOWNSHIP 71S RANGE 89E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BAGLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGH LEAD

SHELTERWOOD

HARVEST

BEACH BUFFER



July 01, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6021</u>	No. Settings <u>1</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>M</u>
Planned acres <u>36</u>		Quad <u>KTNC6NEN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>944</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>CMC</u>
Logging methods <u>SL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-12</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 29 acres VC5 7 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 36 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 34 acres Medium 2 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 33 Mixed 3 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has 36 acres that may require partial or full suspension (BMP 13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 34 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nestsite is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the BEHM/SW NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

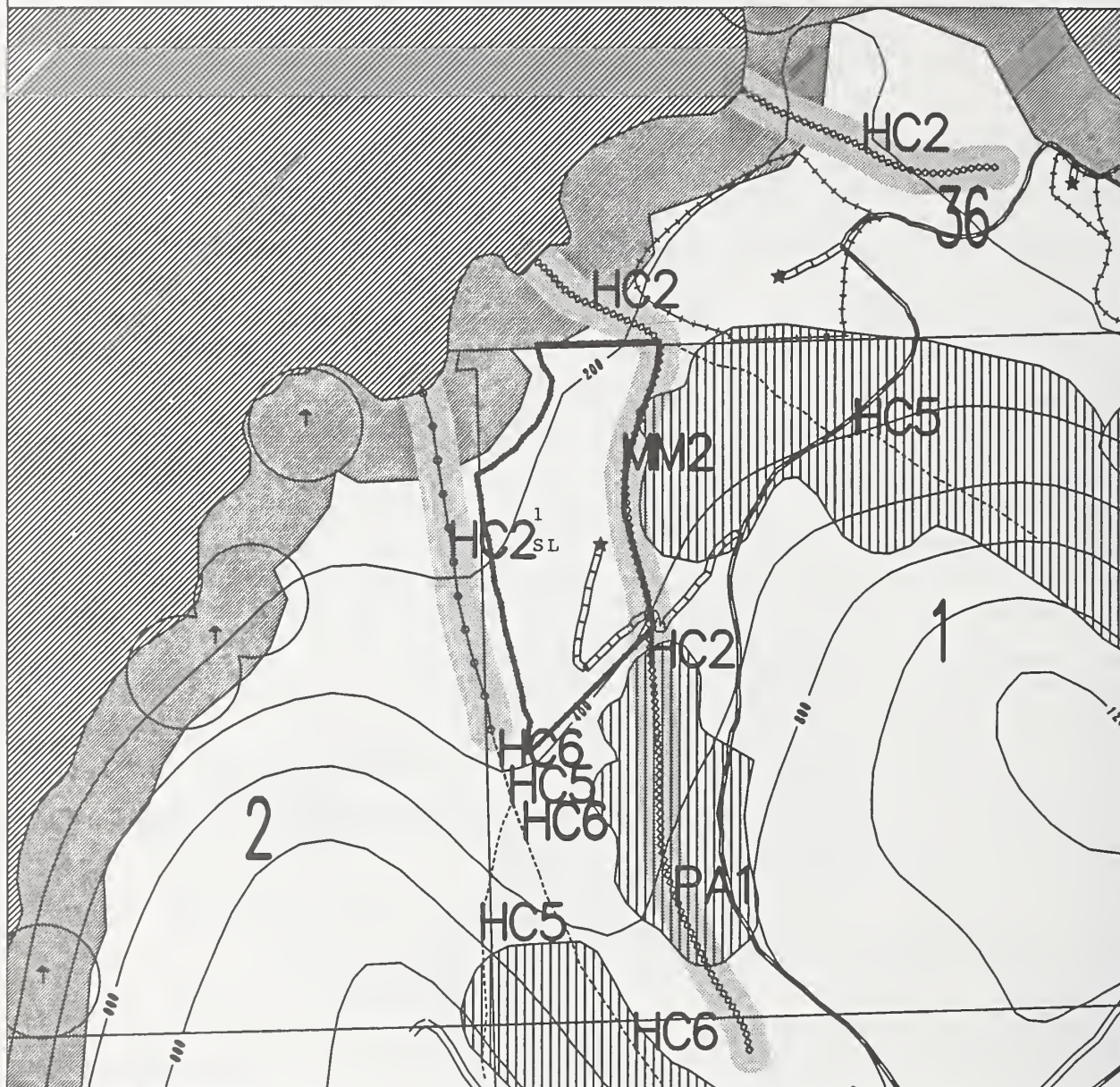
There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6021

PLANNED HARVEST UNIT MAP

ACRES: 36 VOLUME: 944 MBF QUAD(KTND6/KTNC6) QUARTER QUAD(s): /NWN
 PHOTO NUM.: 1179-12 LANDNET INFO TOWNSHIP 70S RANCR 89E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 EAGLE TREE (↑)

EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

SL SLACKLINE

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 01, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6022</u>	No. Settings <u>1</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>M</u>
Planned acres <u>22</u>		Quad <u>KTND6SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>511</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>CMC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-13</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 20 acres VC5 2 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 20 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 2 acres
Mass movement index: Low 21 acres Medium 1 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 21 Mixed 1 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has 22 acres that may require partial or full suspension (BMP 13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 21 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nestsite is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the BEHM/SW NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6022

PLANNED HARVEST UNIT MAP

ACRES: 22 VOLUME: 511 MBP QUAD(~~V~~) TND6/KTNC6 QUARTER QUAD(s): /NWN
 PHOTO NUM.: 1179-13 LANDNET INFO TOWNSHIP 70S RANGE 89E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following
 intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL

0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (upward arrow in circle)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGH LEAD



SHELTERWOOD

HARVEST

BEACH BUFFER



SHELTERWOOD

HARVEST



July 01, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6023</u>	No. Settings <u>2</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>PR</u>
Planned acres <u>10</u>		Quad <u>KTND6SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>227</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>CMC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-45</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 10 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 10 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 7 acres Medium 3 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 9 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect East

SOILS

This unit has 10 acres that may require partial or full suspension (BMP 13.9)
This unit contains 6 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nest site is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the BEHM/SW NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

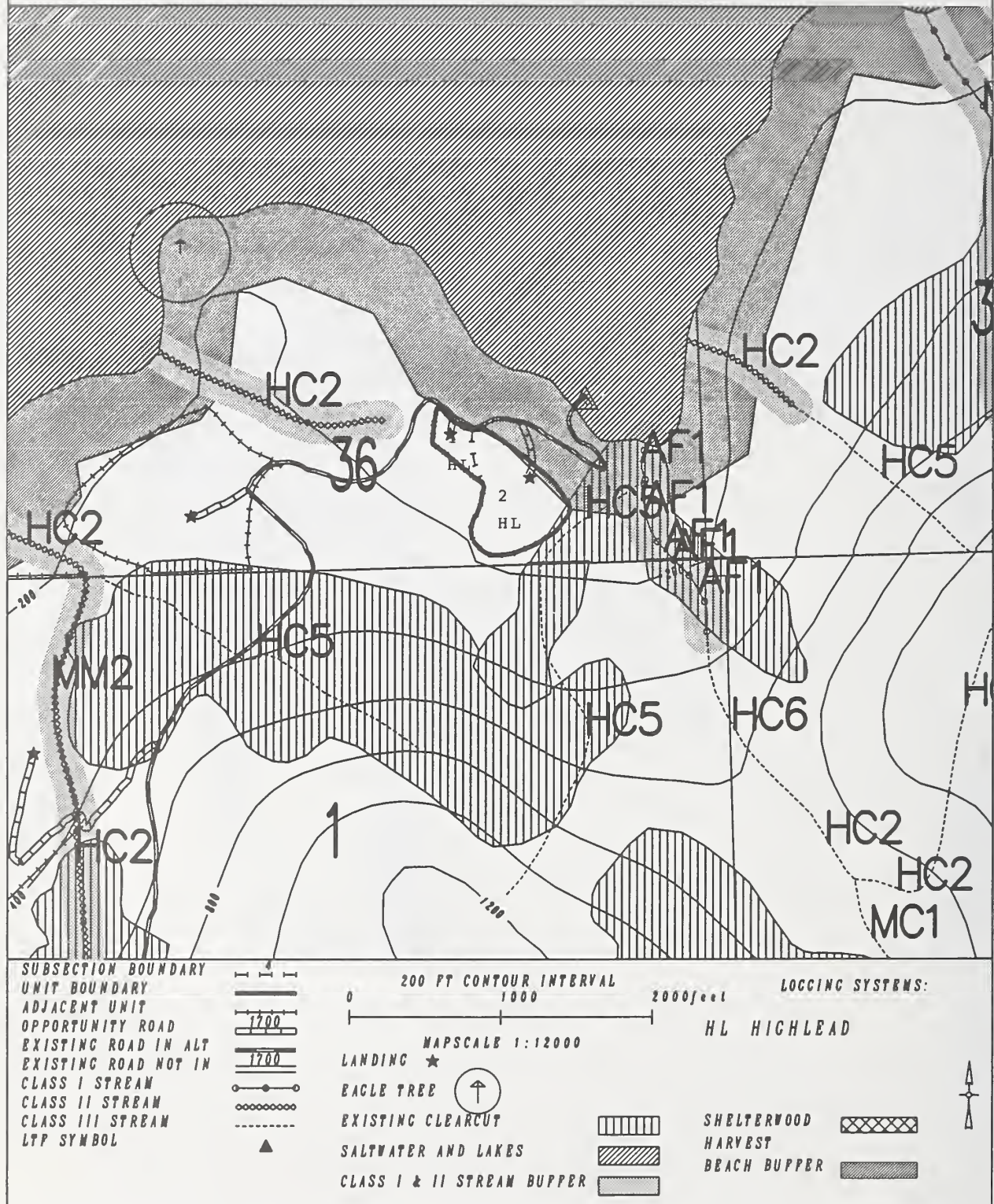
There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6023

PLANNED HARVEST UNIT MAP

ACRES: 10 VOLUME: 227 MBP QUAD(s): KTND6 QUARTER QUAD(s): _____
 PHOTO NUM.: 1179-45 LANDNET INFO TOWNSHIP 70S RANGE 89E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 01, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6024</u>	No. Settings <u>6</u>	Alternatives considered <u>3 4 6</u>	VQO <u>M</u>
Planned acres <u>71</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1954</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>CCD</u>
Logging methods <u>HL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-104</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 43 acres VC5 28 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 68 acres 800-1200 ft. 3 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 29 acres Medium 0 acres High 42 acres Very High 0 acres
Cedar 0 Hemlock 70 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has 18 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit contains 48 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 2 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).

FISH/WATERSHED

There are 3 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Maintain adequate distribution of snags by leaving 0.1 acre-sized patches of green trees within the unit for every 10 acres harvested. Snag patches must be compatible with logging system and safe working conditions.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the INNER NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

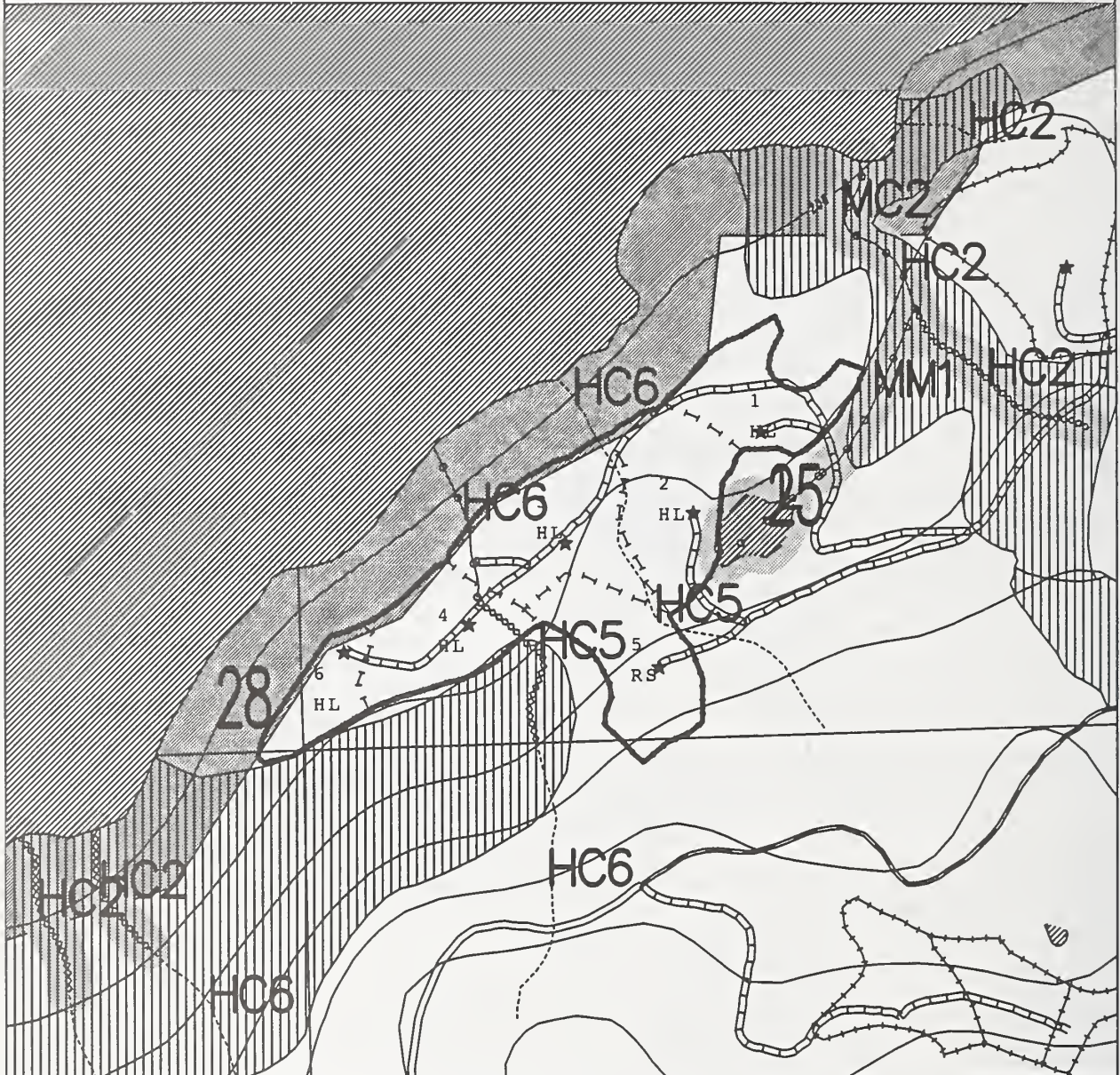
There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6024

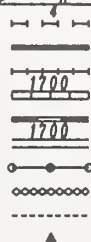
PLANNED HARVEST UNIT MAP

ACRES: 71 VOLUME: 1954 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-104 LANDNET INFO TOWNSHIP 70S RANGE 90P

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGHLEAD

RS RUNNING SKYLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



July 01, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6025</u>	No. Settings <u>6</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>PR</u>
Planned acres <u>52</u>		Quad <u>KTND6SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1338</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>CCD</u>
Logging methods <u>HL SL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-20</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 46 acres VC5 6 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 52 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 1 acres Medium 30 acres High 21 acres Very High 0 acres
Cedar 0 Hemlock 42 Mixed 4 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 28 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 2 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nest site is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the BEHM/NW NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

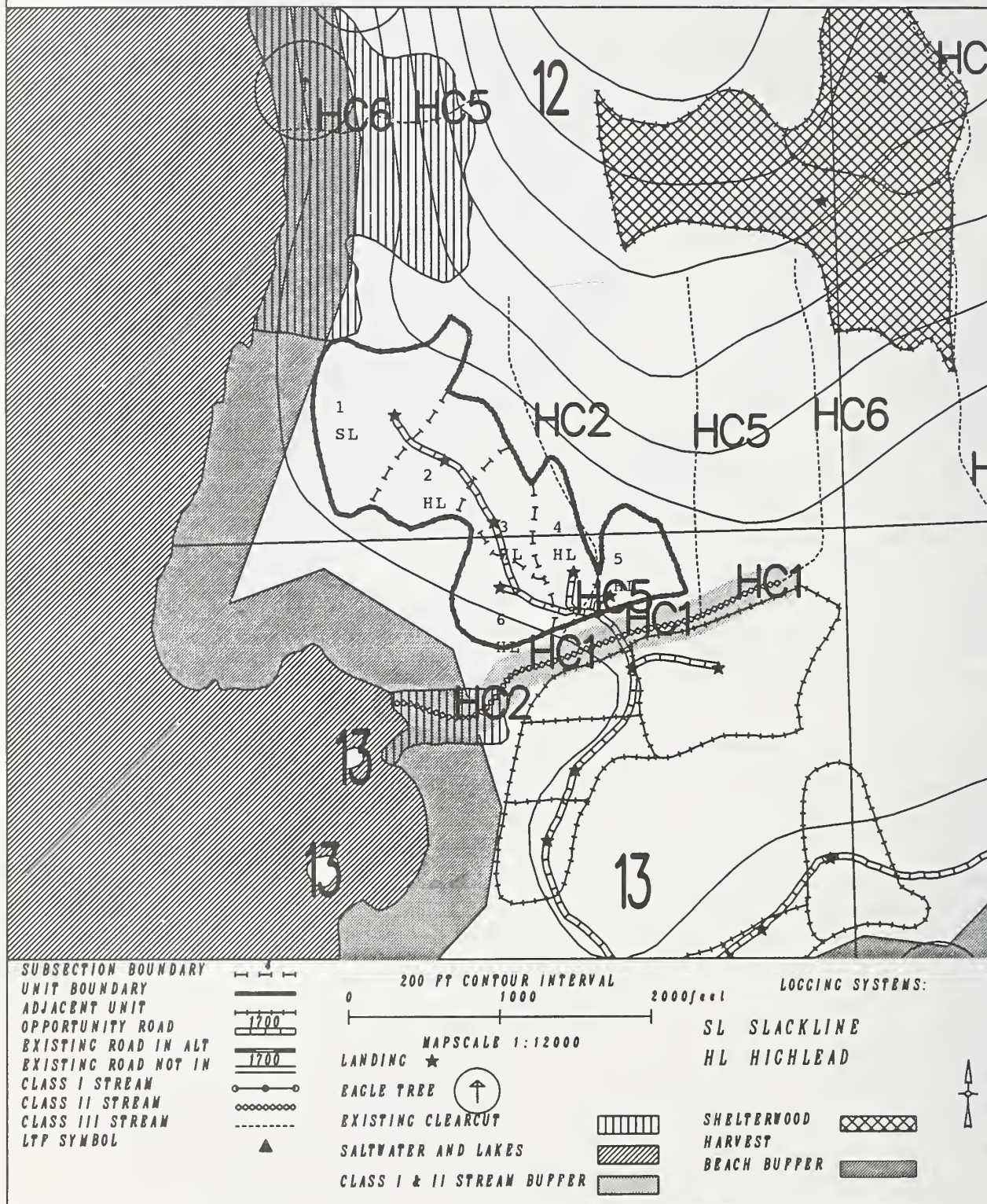
There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6025

PLANNED HARVEST UNIT MAP

ACRES: 52 VOLUME: 1338 MBP QUAD(s): KTND6 QUARTER QUAD(s): _____
 PHOTO NUM.: 1179-20 LANDNET INFO TOWNSHIP 70S RANGE 89E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 01, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6026</u>	No. Settings <u>9</u>	Alternatives considered <u>3</u>	VQO <u>M</u>
Planned acres <u>103</u>		Quad <u>KTND6SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>3049</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>WDC</u>
Logging methods <u>HL SL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-39</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 29 acres VC5 74 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 103 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 10 acres Medium 63 acres High 30 acres Very High 0 acres
Cedar 0 Hemlock 85 Mixed 17 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 58 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas. (BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 9 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).

FISH/WATERSHED

All trees less than 12 inches DBH within 35 feet of Class III streams, will remain standing in these units.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nest site is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Maintain diversity within unit by leaving 1-5 acre-sized islands of green trees at a rate of 1 acre of island for every 20 acre harvested. Leave islands must be compatible with logging system and safe working conditions.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the BEHM/NW NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

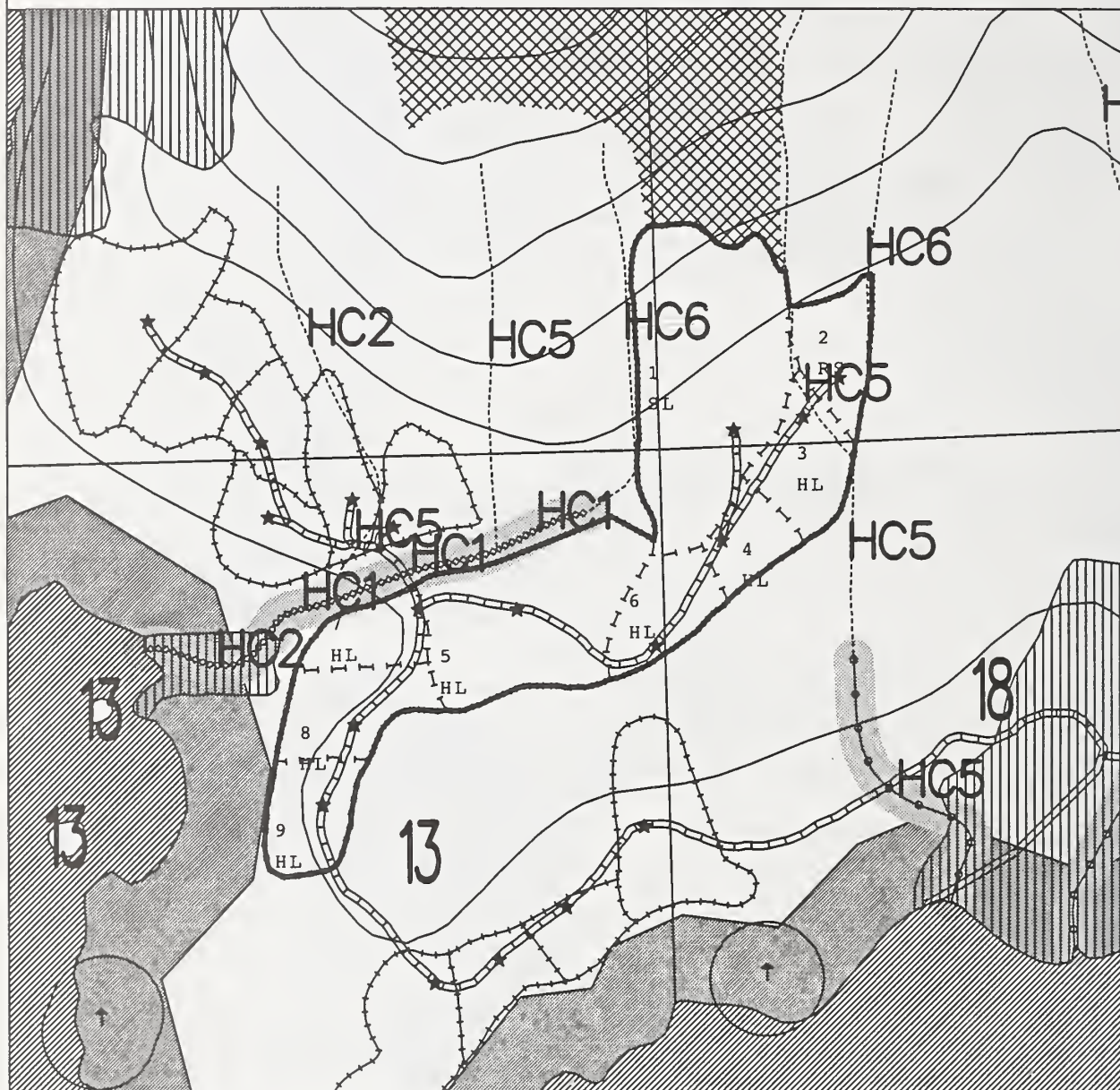
There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6026

PLANNED HARVEST UNIT MAP

ACRES: 103 VOLUME: 3049 MBP QUAD(s): KTND6 QUARTER QUAD(s): _____
 PHOTO NUM.: 1179-39 LANDNET INFO TOWNSHIP 70S RANGE 89E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN ALT
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 EAGLE TREE (circle with T)
 EXISTING CLEARCUT (rectangle with cross-hatch)
 SALTWATER AND LAKES (rectangle with diagonal hatch)
 CLASS I & II STREAM BUFFER (solid grey rectangle)

LOGGING SYSTEMS:

SL SLACKLINE
 RS RUNNING SKYLINE
 HL HIGHLEAD
 SHELTERWOOD (rectangle with cross-hatch)
 HARVEST (rectangle with diagonal hatch)
 BEACH BUFFER (solid grey rectangle)

July 01, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6027</u>	No. Settings <u>4</u>	Alternatives considered <u>3 5 6</u>	VQO <u>PR</u>
Planned acres <u>37</u>		Quad <u>KTND6SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1160</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>CMC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-39</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 37 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 37 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 8 acres Medium 29 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 33 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 37 acres that may require partial or full suspension (BMP 13.9)
This unit has < 40% McGilverly soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 8 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are 1 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nestsite is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the BEHM/NW NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

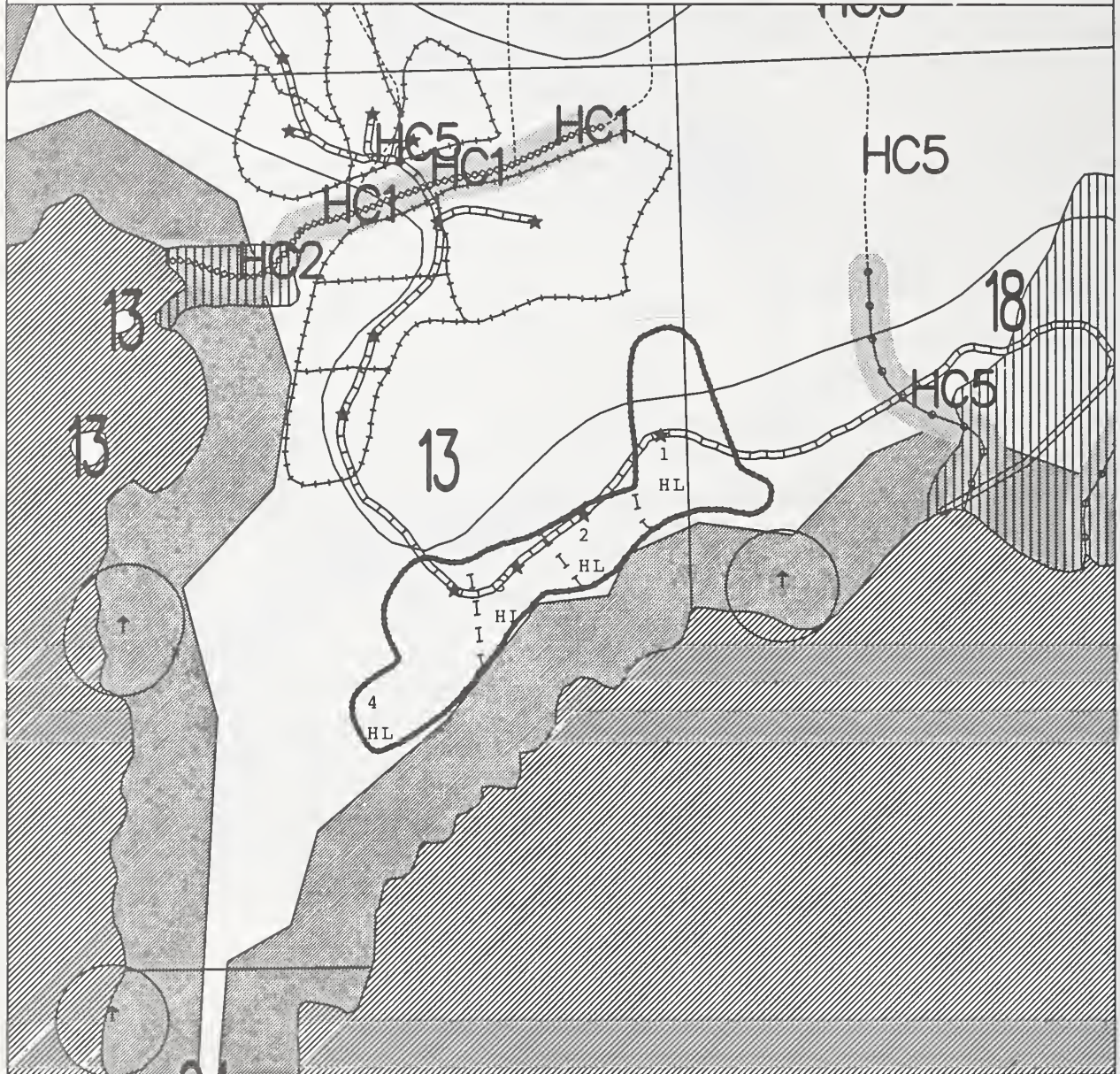
There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6027

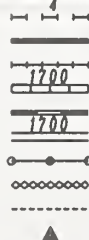
PLANNED HARVEST UNIT MAP

ACRES: 37 VOLUME: 1160 MBP QUAD(s): KTND6 QUARTER QUAD(s): _____
 PHOTO NUM.: 1179-39 LANDNET INFO TOWNSHIP 70S RANGE 90R

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGHLEAD



SHELTERWOOD

HARVEST

BEACH BUFFER



July 01, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6028</u>	No. Settings <u>2</u>	Alternatives considered <u>3 4 6</u>	VQO <u>PR</u>
Planned acres <u>48</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1313</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>CCS</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-75</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 30 acres VC5 18 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 48 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 48 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 46 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 46 acres that may require partial or full suspension (BMP 13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 7 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nestsite is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the BEHM/NW NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

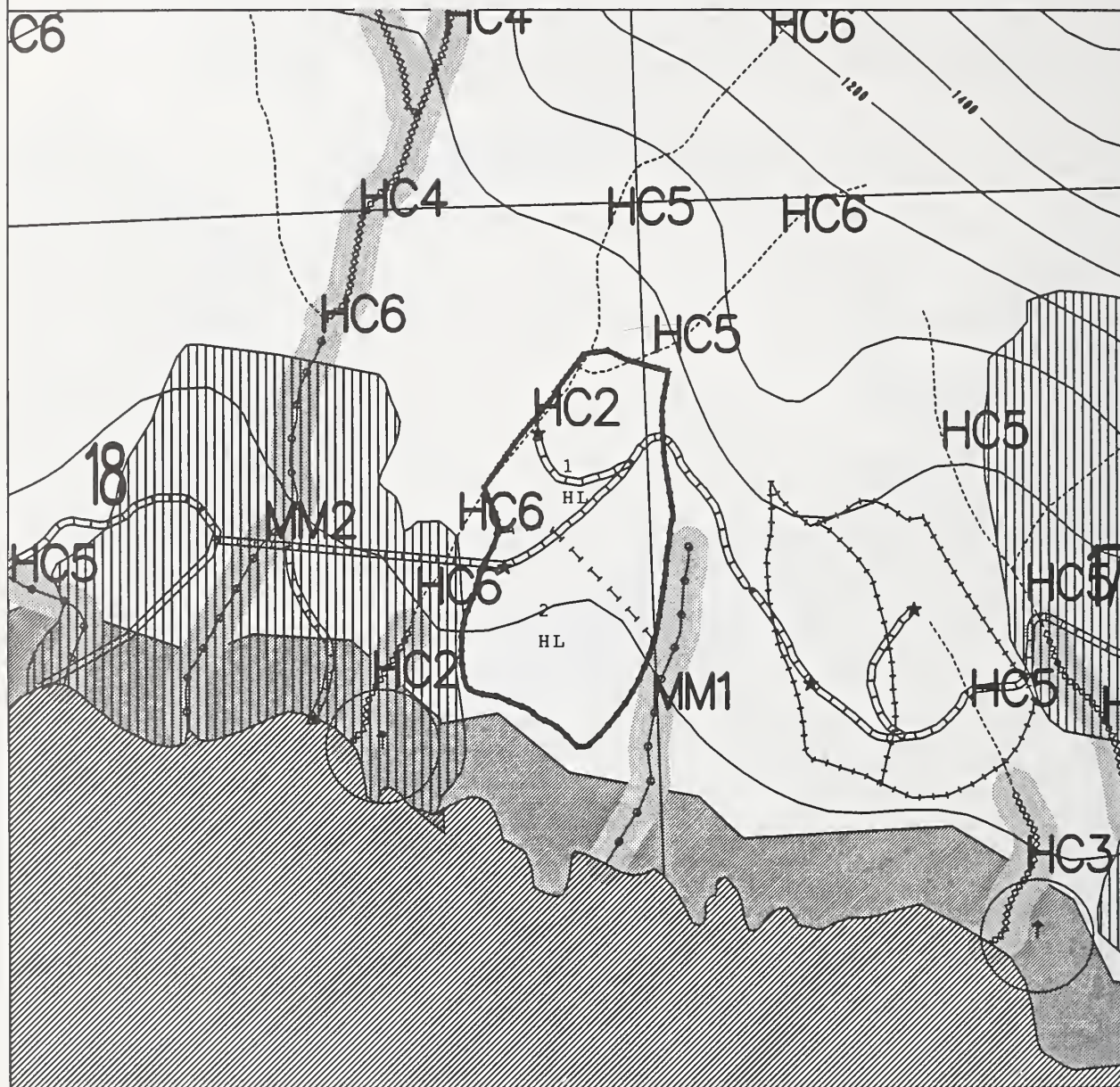
There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6028

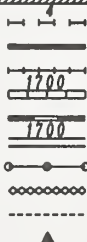
PLANNED HARVEST UNIT MAP

ACRES: 48 VOLUME: 1313 MBP KTND5/KTND6 QUARTER QUAD(s): SWS/
 PHOTO NUM.: 1179-75 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

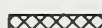
HL HIGHLEAD



SHELTERWOOD

HARVEST

BEACH BUFFER



July 01, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6029</u>	No. Settings <u>2</u>	Alternatives considered <u>3 4 6</u>	VQO <u>M</u>
Planned acres <u>42</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1146</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>WHS</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-75</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 35 acres VC5 7 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 42 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 43 acres High 8 acres Very High 0 acres
Cedar 0 Hemlock 41 Mixed 1 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 42 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of
Bald Eagle nest site. If nestsite is active follow the intra-agency agreement
agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the BEHM/NW NEETS BAY viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

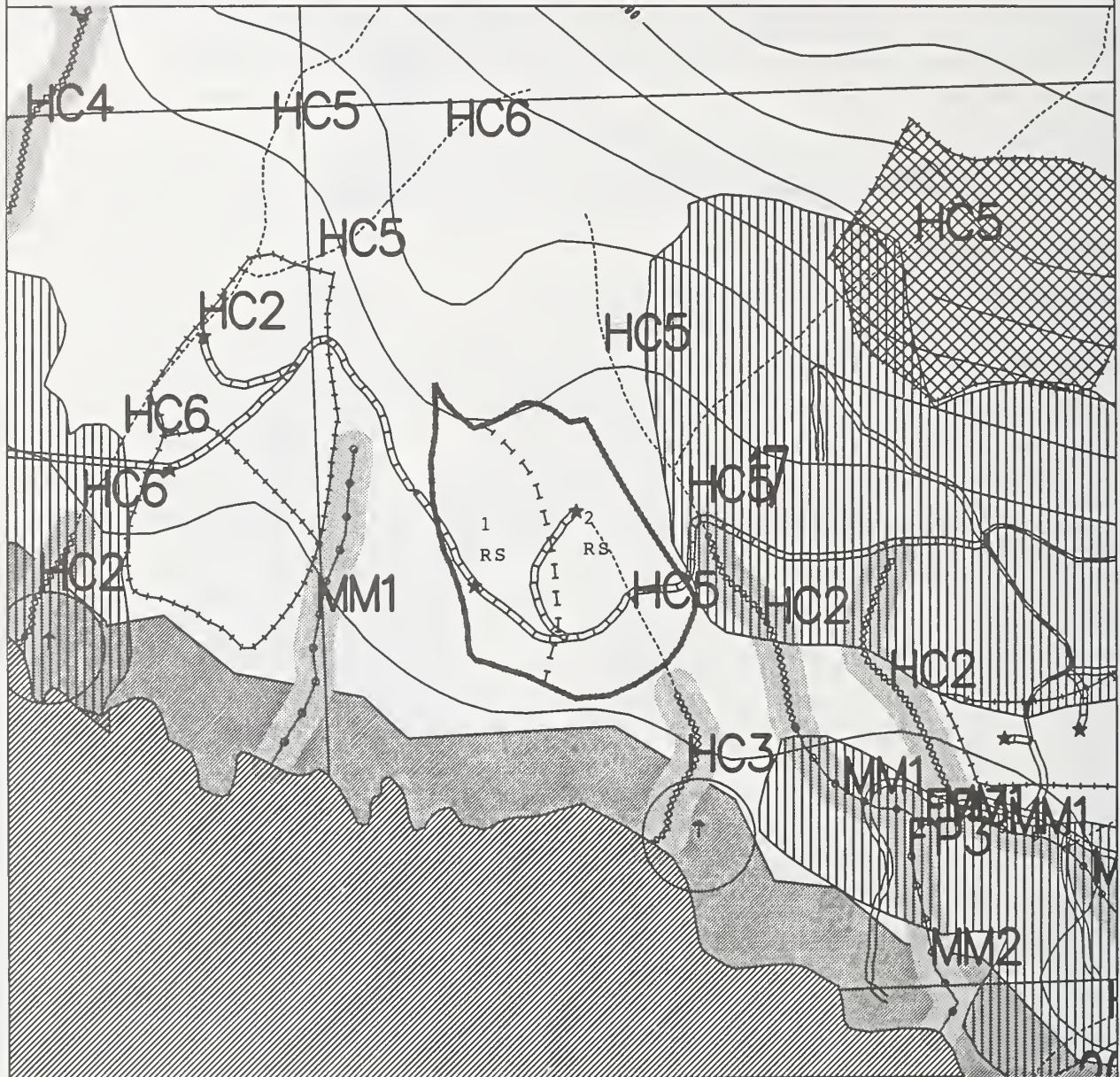
There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6029

PLANNED HARVEST UNIT MAP

ACRES: 42 VOLUME: 1146 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-75 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BACLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUPPER

LOGGING SYSTEMS:

RS RUNNING SKYLINE



SHELTERWOOD

HARVEST

BEACH BUPPER



July 01, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6030</u>	No. Settings <u>2</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>MM</u>
Planned acres <u>56</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1398</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>CCS</u>
Logging methods <u>SL RS</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-10</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 56 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 8 acres 800-1200 ft. 35 acres 1200-1500 ft. 13 acres over 1500 ft. 0 acres
Mass movement index: Low 50 acres Medium 3 acres High 3 acres Very High 0 acres
Cedar 0 Hemlock 6 Mixed 50 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 56 acres that may require partial or full suspension (BMP 13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the BEHM/NW NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

July 01, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6031</u>	No. Settings <u>4</u>	Alternatives considered <u>3 4 6</u>	VQO <u>MM</u>
Planned acres <u>127</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>3529</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>CCD</u>
Logging methods <u>SL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-10</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 71 acres VC5 56 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 5 acres 800-1200 ft. 77 acres 1200-1500 ft. 45 acres over 1500 ft. 0 acres
Mass movement index: Low 97 acres Medium 10 acres High 20 acres Very High 0 acres
Cedar 0 Hemlock 127 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect East

SOILS

This unit has 127 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 29 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Maintain diversity within unit by leaving 1-5 acre-sized islands of green trees at a rate of 1 acre of island for every 20 acre harvested. Leave islands must be compatible with logging system and safe working conditions.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the INNER NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

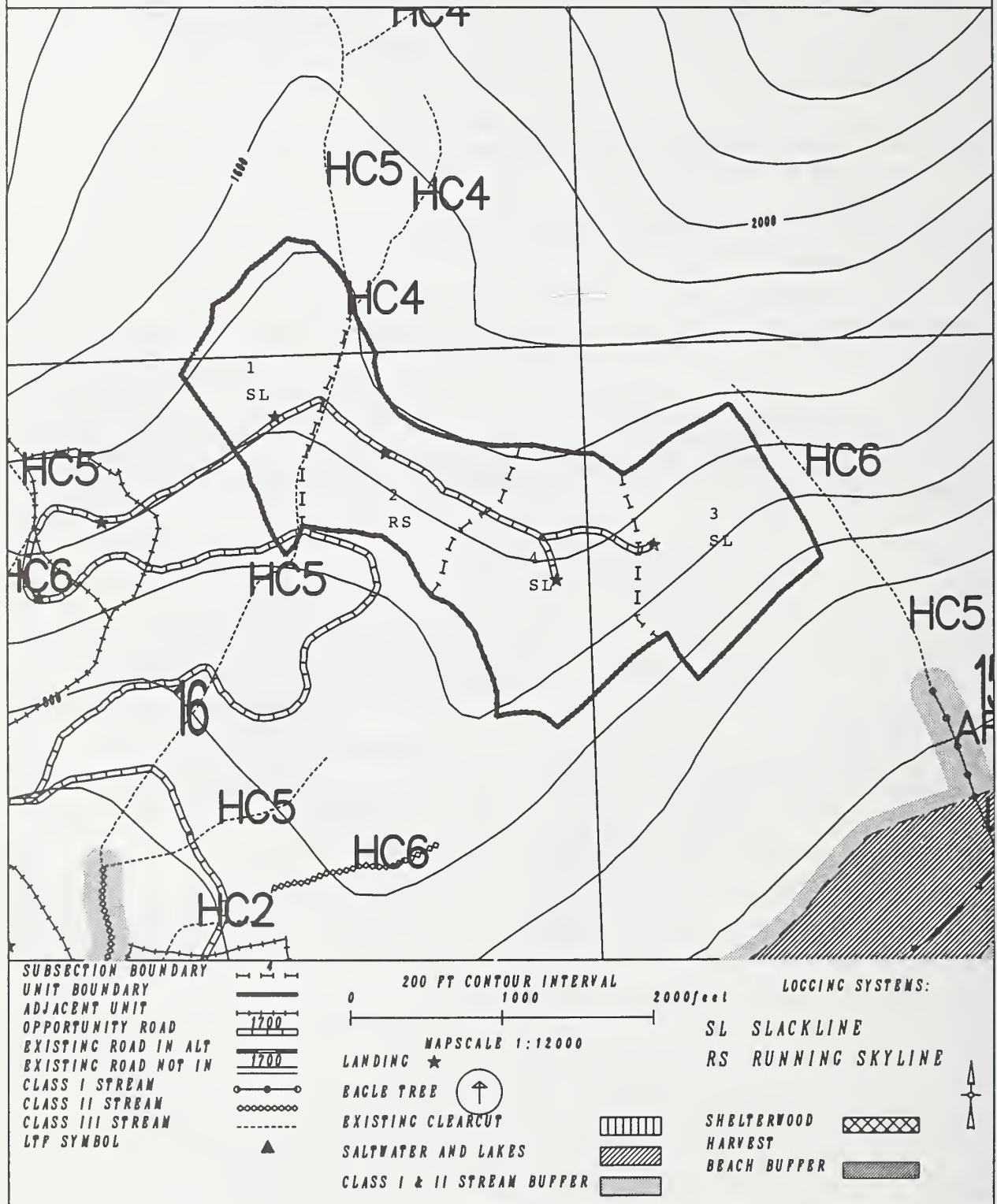
There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6031

PLANNED HARVEST UNIT MAP

ACRES: 127 VOLUME: 3529 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-10 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 01, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6032</u>	No. Settings <u>3</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>MM</u>
Planned acres <u>65</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1956</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>CCS</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-10</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 13 acres VC5 52 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 65 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 27 acres Medium 36 acres High 2 acres Very High 0 acres
Cedar 0 Hemlock 65 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 43 acres that may require partial or full suspension (BMP 13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 18 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are 3 streams which have fish passage requirements, of these passes 3 have timing restrictions (BMPs 13.4, 14.3, 14.6).

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nest site is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the BEHM/NW NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

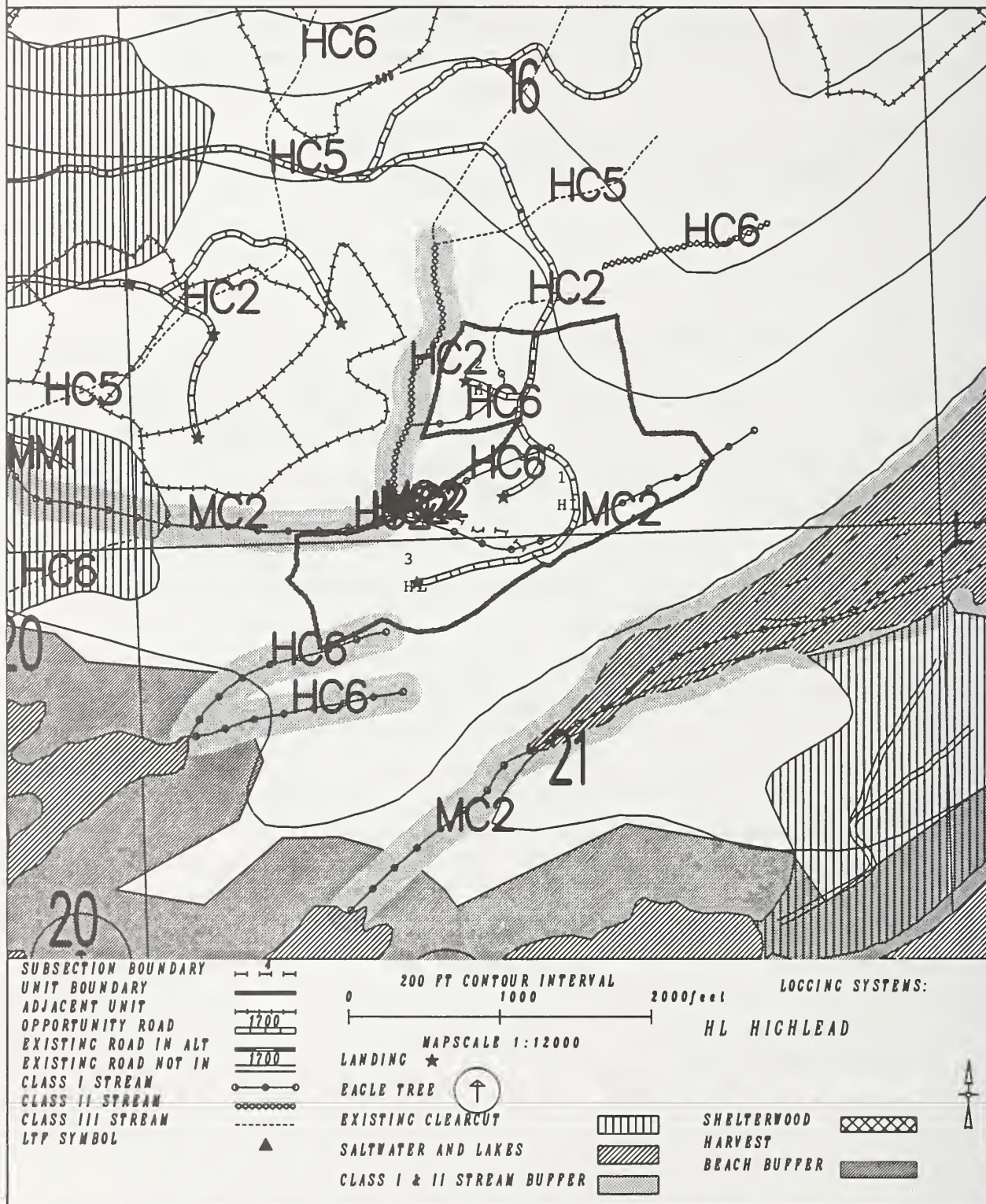
There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6032

PLANNED HARVEST UNIT MAP

ACRES: 65 VOLUME: 1956 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-10 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design at the harvest unit and associated roads.



July 01, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6033</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>PR</u>
Planned acres <u>14</u>		Quad <u>KTND6SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>350</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>WDC</u>
Logging methods <u>SL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-20</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 14 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 14 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 7 acres High 7 acres Very High 0 acres
Cedar 0 Hemlock 11 Mixed 3 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 7 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of
Bald Eagle nest site. If nest site is active follow the intra-agency agreement
agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the BEHM/NW NEETS BAY viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

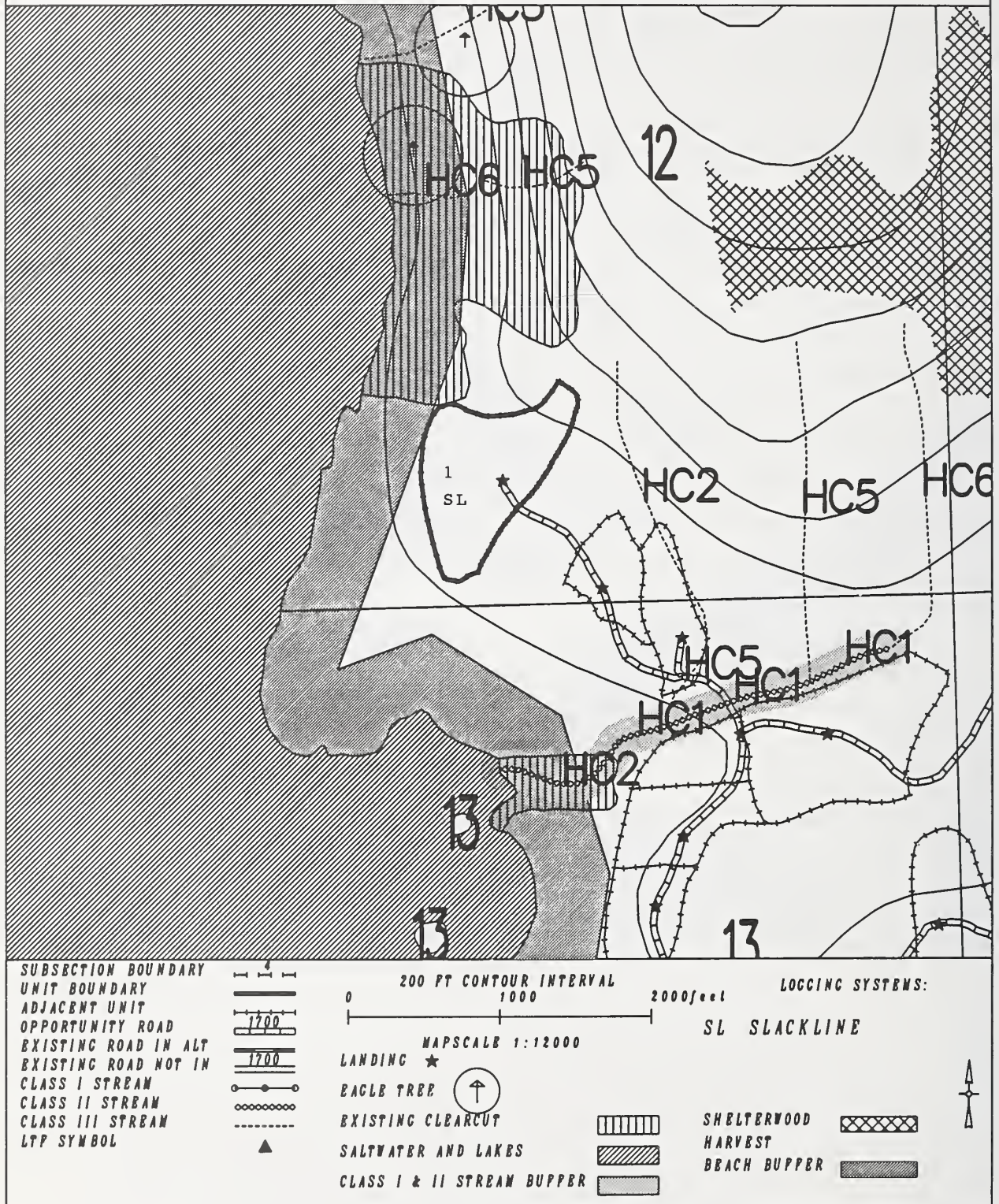
There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6033

PLANNED HARVEST UNIT MAP

ACRES: 14 VOLUME: 350 MBP QUAD(s): KTND6 QUARTER QUAD(s): _____
 PHOTO NUM.: 1179-20 LANDNET INFO TOWNSHIP 70S RANGE 89E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6034</u>	No. Settings <u>2</u>	Alternatives considered <u>5</u>	VQO <u>M</u>
Planned acres <u>13</u>		Quad <u>KTND6SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>325</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>WDC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-20</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 13 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 13 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 1 acres Medium 9 acres High 3 acres Very High 0 acres
Cedar 0 Hemlock 12 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 4 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are 1 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the BEHM/NW NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6034

PLANNED HARVEST UNIT MAP

ACRES: 13VOLUME: 325 MBPQUAD(s): KTND6

QUARTER QUAD(s): _____

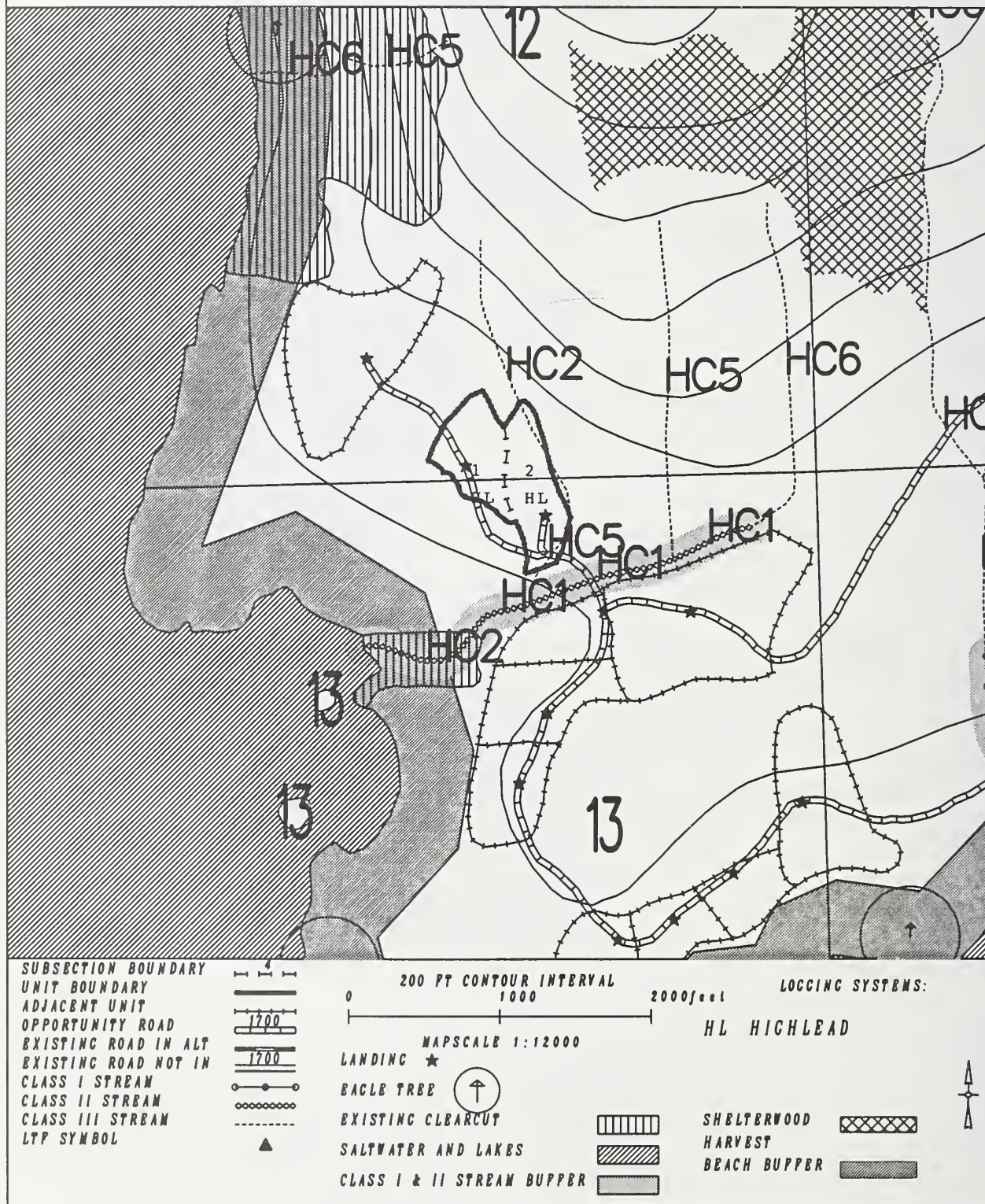
PHOTO NUM.: 1179-20

LANDNET INFO

TOWNSHIP

70SRANGE 89E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR WHPA DEIS

Unit <u>6035</u>	No. Settings <u>4</u>	Alternatives considered <u>5</u>	VQO <u>M</u>
Planned acres <u>44</u>		Quad <u>KTND6SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1309</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>CMC</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-39</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 11 acres VC5 33 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 44 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 16 acres Medium 7 acres High 21 acres Very High 0 acres
Cedar 0 Hemlock 43 Mixed 1 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 36 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 16 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nest site is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the BEHM/NW MEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6035

PLANNED HARVEST UNIT MAP

ACRES: 44VOLUME: 1309

MBP

QUAD(s): KTND6

QUARTER QUAD(s): _____

PHOTO NUM.: _____

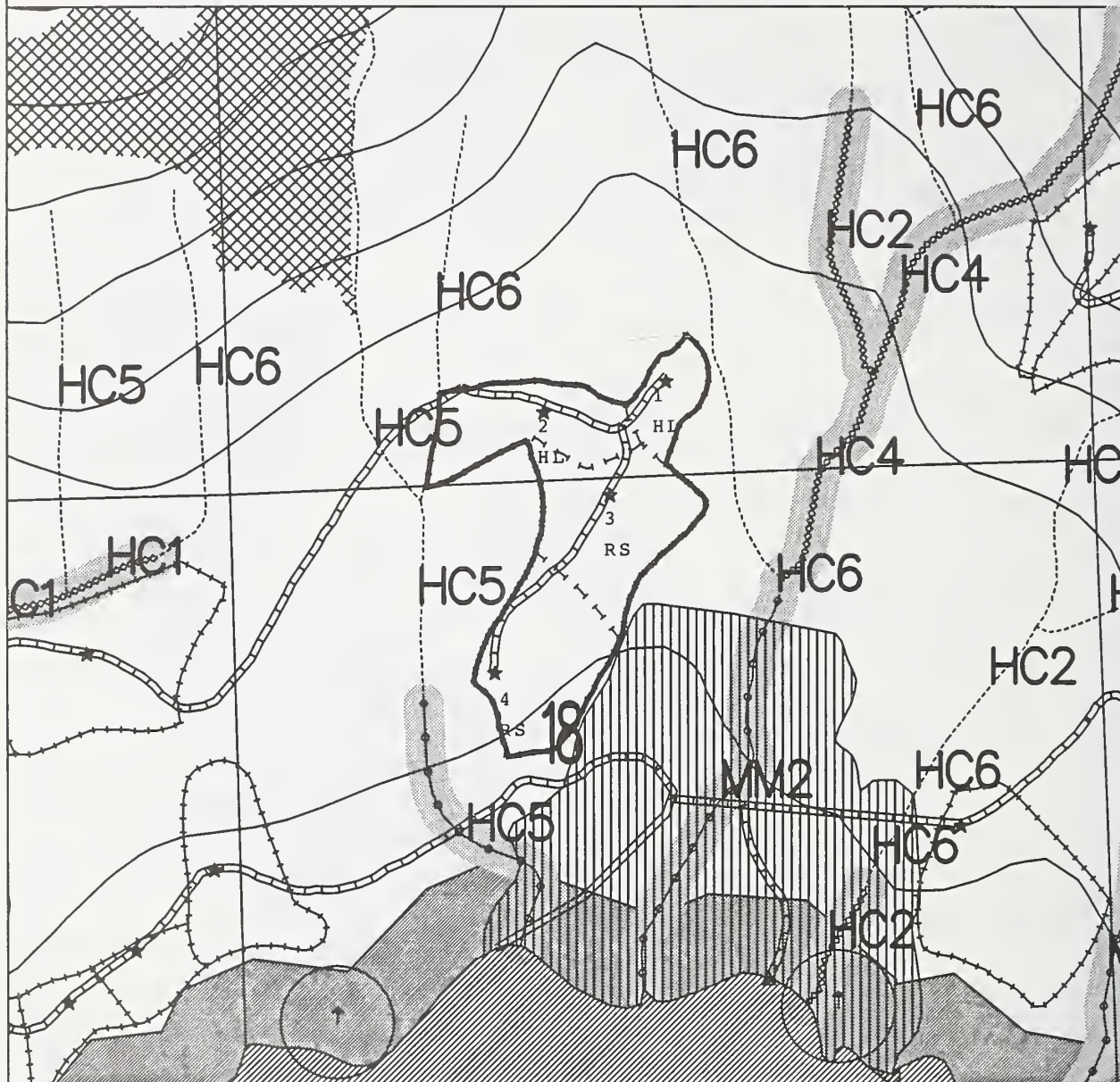
1179-39

LANDNET INFO

TOWNSHIP

70SRANGR 90P

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet
MAPSCALE 1:12000

LANDING ★
EAGLE TREE (upward arrow in circle)
EXISTING CLEARCUT
SALTWATER AND LAKES
CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGHLEAD
RS RUNNING SKYLINE

SHELTERWOOD
HARVEST
BEACH BUFFER



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6036</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>PR</u>
Planned acres <u>22</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>587</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>WDC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-75</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 16 acres VC5 6 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 22 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 22 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 21 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are 1 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nest site is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the BEHM/NW NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

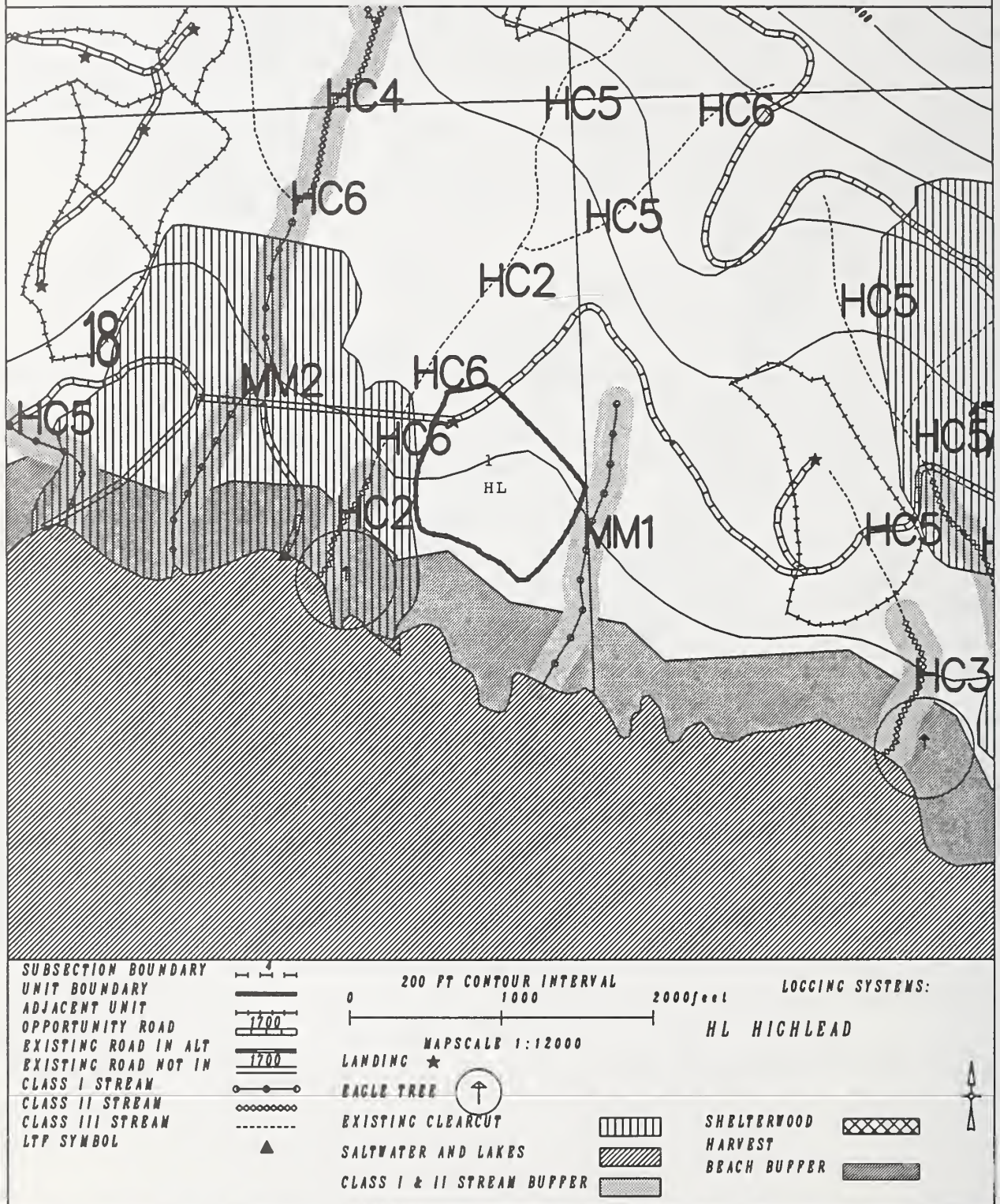
There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6036

PLANNED HARVEST UNIT MAP

ACRES: 22 VOLUME: 587 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-75 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6037</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>M</u>
Planned acres <u>23</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>574</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>WHS</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-75</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 23 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 23 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 23 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 22 Mixed 1 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 23 acres that may require partial or full suspension (BMP 13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of
Bald Eagle nest site. If nest site is active follow the intra-agency agreement
agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the BEHM/NW NEETS BAY viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

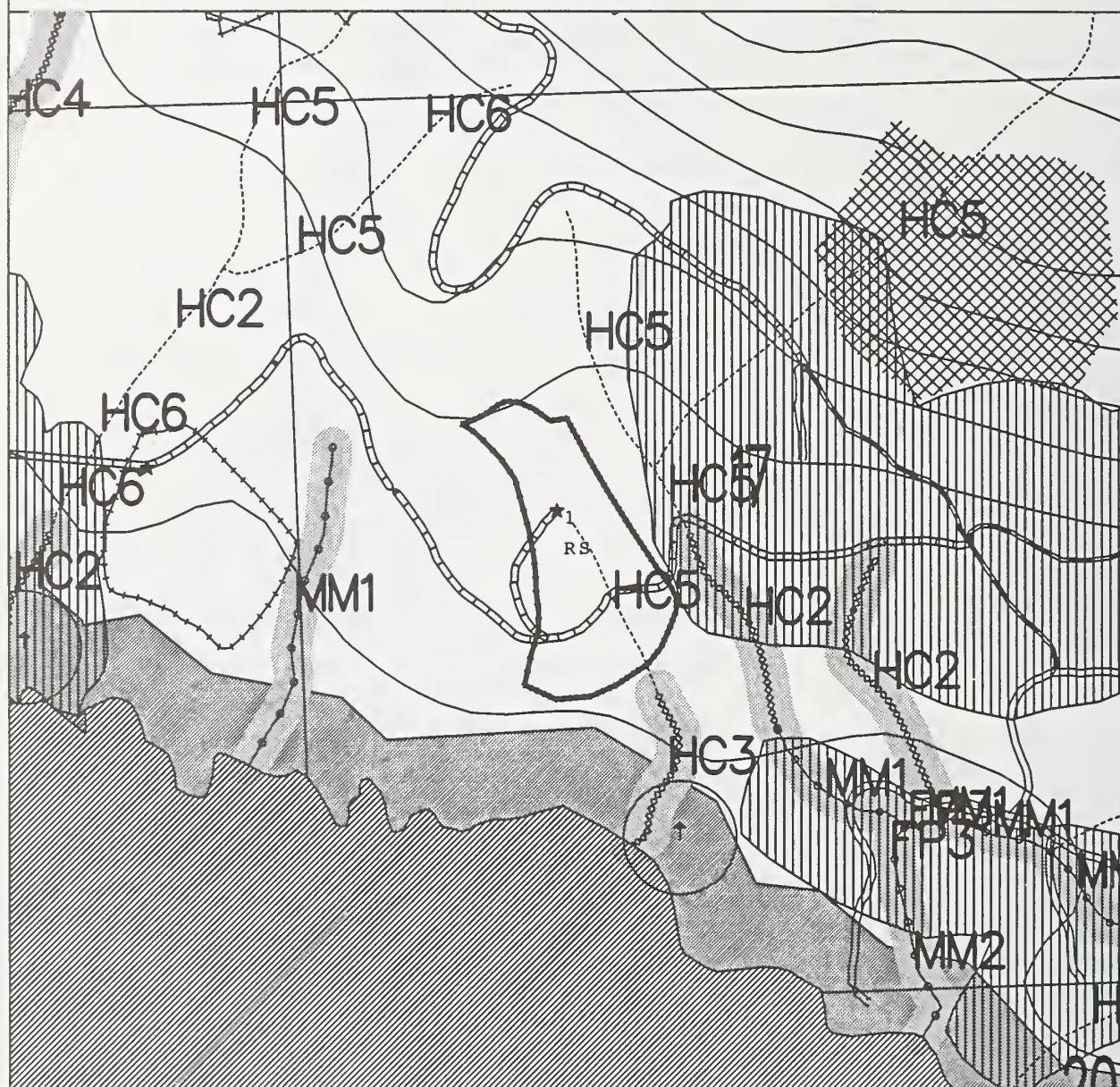
There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6037

PLANNED HARVEST UNIT MAP

ACRES: 23 VOLUME: 574 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-75 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet
 MAP SCALE 1:12000

LANDING ★
 BACLE TREE (upward arrow)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:
 RS RUNNING SKYLINE
 SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6038</u>	No. Settings <u>2</u>	Alternatives considered <u>3 4 5</u>	VQO <u>M</u>
Planned acres <u>22</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>690</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>NME</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-75</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 22 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 2 acres 800-1200 ft. 20 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 3 acres Medium 0 acres High 19 acres Very High 0 acres
Cedar 0 Hemlock 0 Mixed 22 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 22 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nest site is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the BEHM/NW MEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7360

UNIT NUMBER: 6038

PLANNED HARVEST UNIT MAP

ACRES: 22

VOLUME: 690

MBP

QUAD(s): KTND5

QUARTER QUAD(s): SWN/SWS

PHOTO NUM.:

1179-75

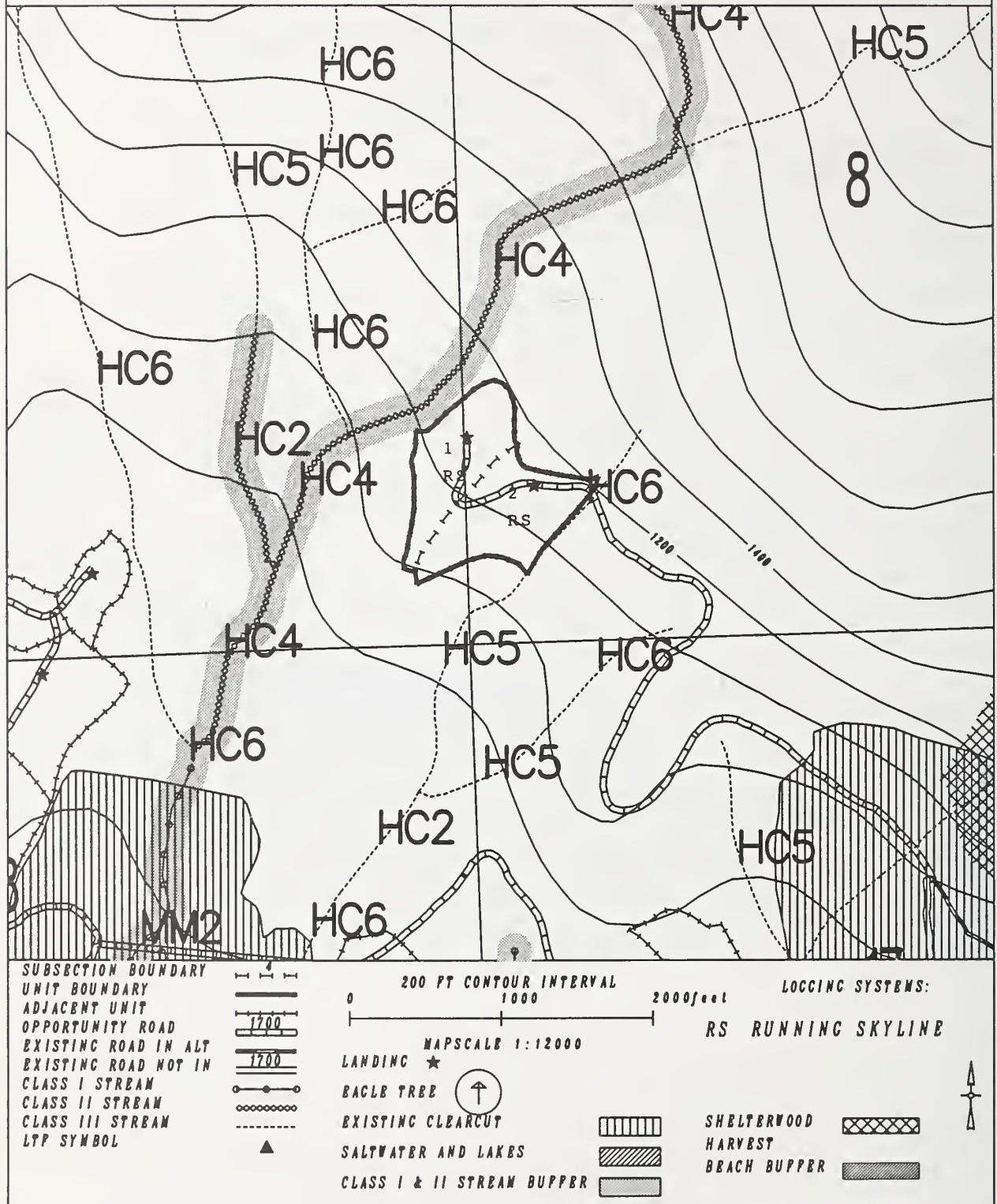
LANDNET INFO

TOWNSHIP

70S

RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6039</u>	No. Settings <u>2</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>30</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>902</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>CCS</u>
Logging methods <u>HL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-100</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 6 acres VC5 24 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 29 acres 800-1200 ft. 1 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 14 acres Medium 16 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 26 Mixed 4 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 30 acres that may require partial or full suspension (BMP 13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 18 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nest site is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the BEHM/NW NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

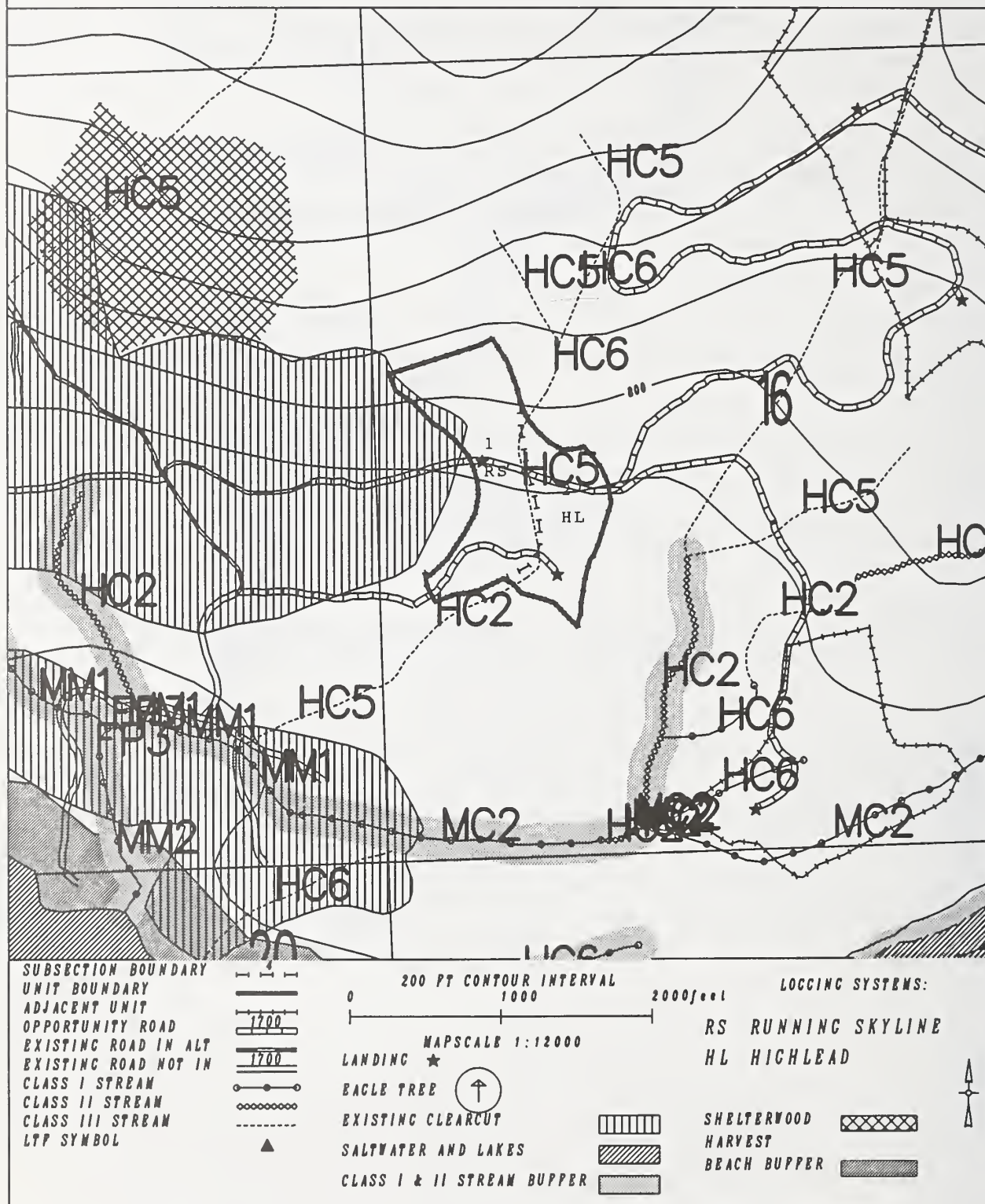
There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6039

PLANNED HARVEST UNIT MAP

ACRES: 30 VOLUME: 902 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-100 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6040</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>34</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1066</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>CCS</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-100</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 34 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 34 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 5 acres Medium 28 acres High 1 acres Very High 0 acres
Cedar 0 Hemlock 34 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 34 acres that may require partial or full suspension (BMP 13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are 1 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the BEHM/NW NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit 6041 No. Settings 3 Alternatives considered 5 VQO MM
Planned acres 89 Quad KTND5SWS Windthrow risk H
Estimated volume (mbf) 2415 Mgmt Area K32 VCU 7360 Plant Series CCD
Logging methods SL RS WAA 510 Forest type Hemlock
Silvicultural system Clearcut 1981 Photo 1179-100

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 59 acres VC5 30 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 59 acres 1200-1500 ft. 30 acres over 1500 ft. 0 acres
Mass movement index: Low 51 acres Medium 20 acres High 18 acres Very High 0 acres
Cedar 0 Hemlock 89 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect East

SOILS

This unit has 89 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 38 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the INNER NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

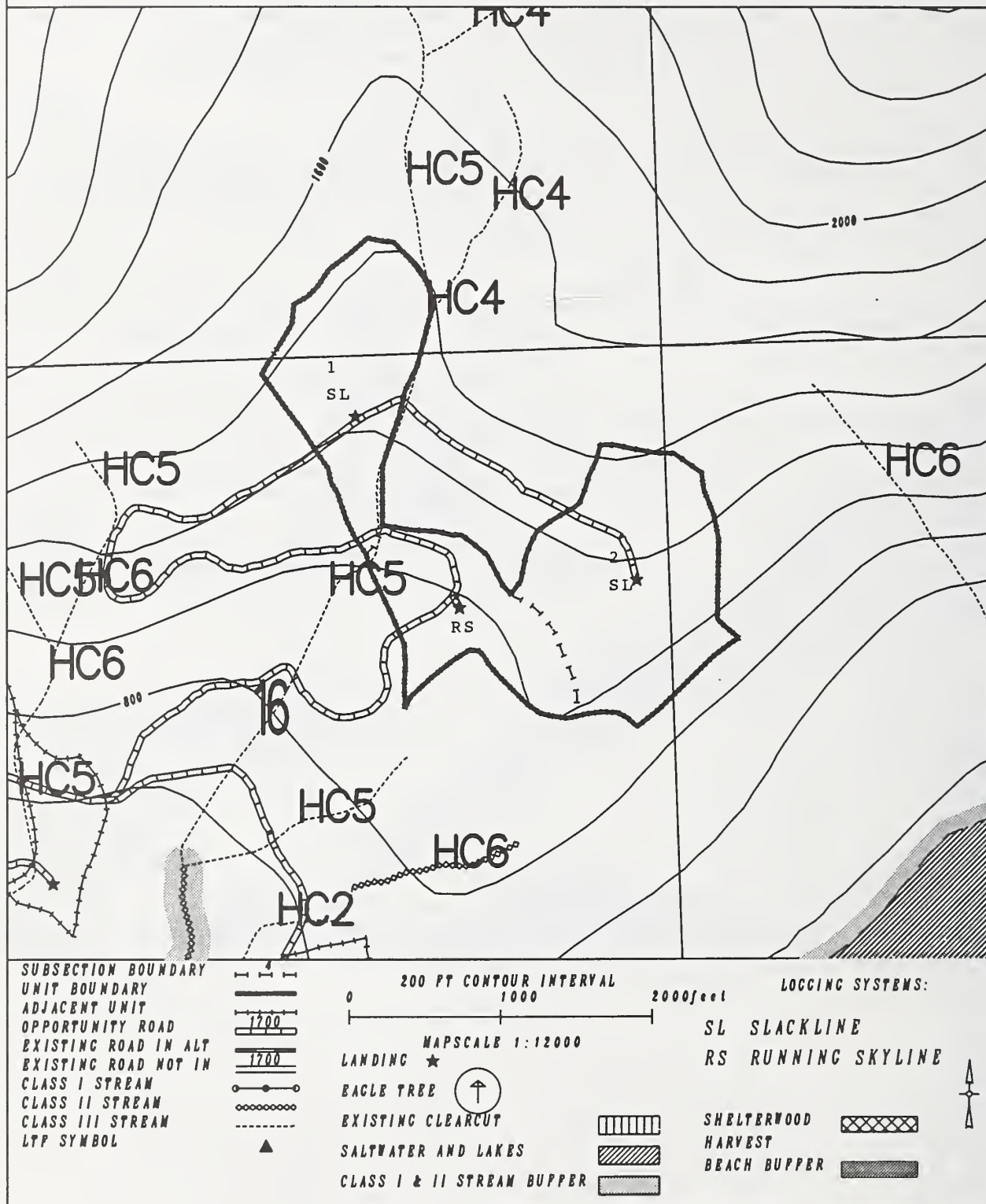
There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6041

PLANNED HARVEST UNIT MAP

ACRES: 89 VOLUME: 2415 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-100 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6042</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>M</u>
Planned acres <u>11</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>345</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>WDC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-134</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 11 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 11 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 1 acres Medium 0 acres High 10 acres Very High 0 acres
Cedar 0 Hemlock 11 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has 11 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of
Bald Eagle nest site. If nestsite is active follow the intra-agency agreement
agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the INNER NEETS BAY viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

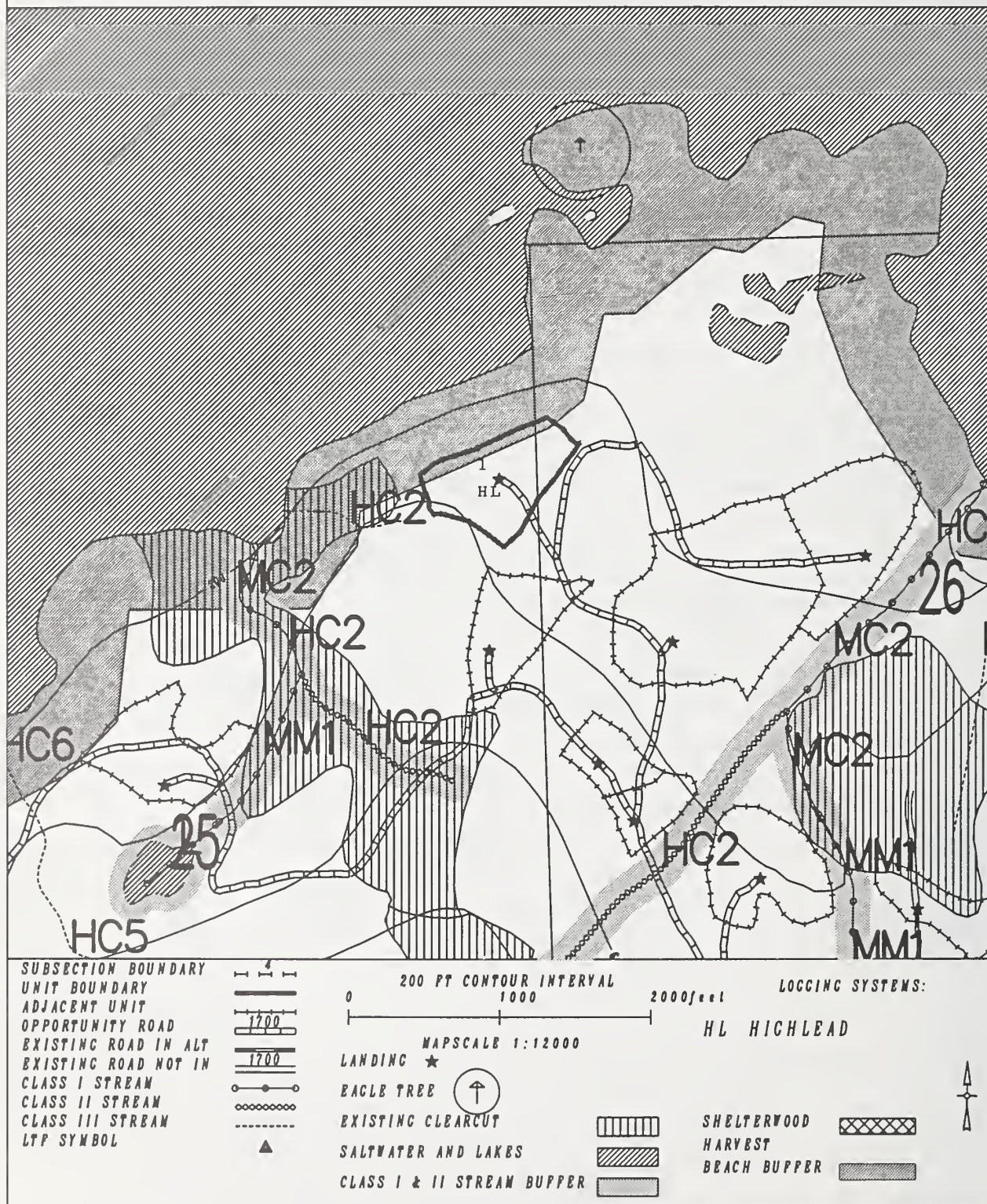
There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6042

PLANNED HARVEST UNIT MAP

ACRES: 11 VOLUME: 345 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-134 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 09, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6043</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>M</u>
Planned acres <u>11</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>275</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>CMC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-104</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 11 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 11 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 6 acres Medium 0 acres High 5 acres Very High 0 acres
Cedar 0 Hemlock 10 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has 11 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit contains 10 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.

FISH/WATERSHED

There are 2 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the INNER NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

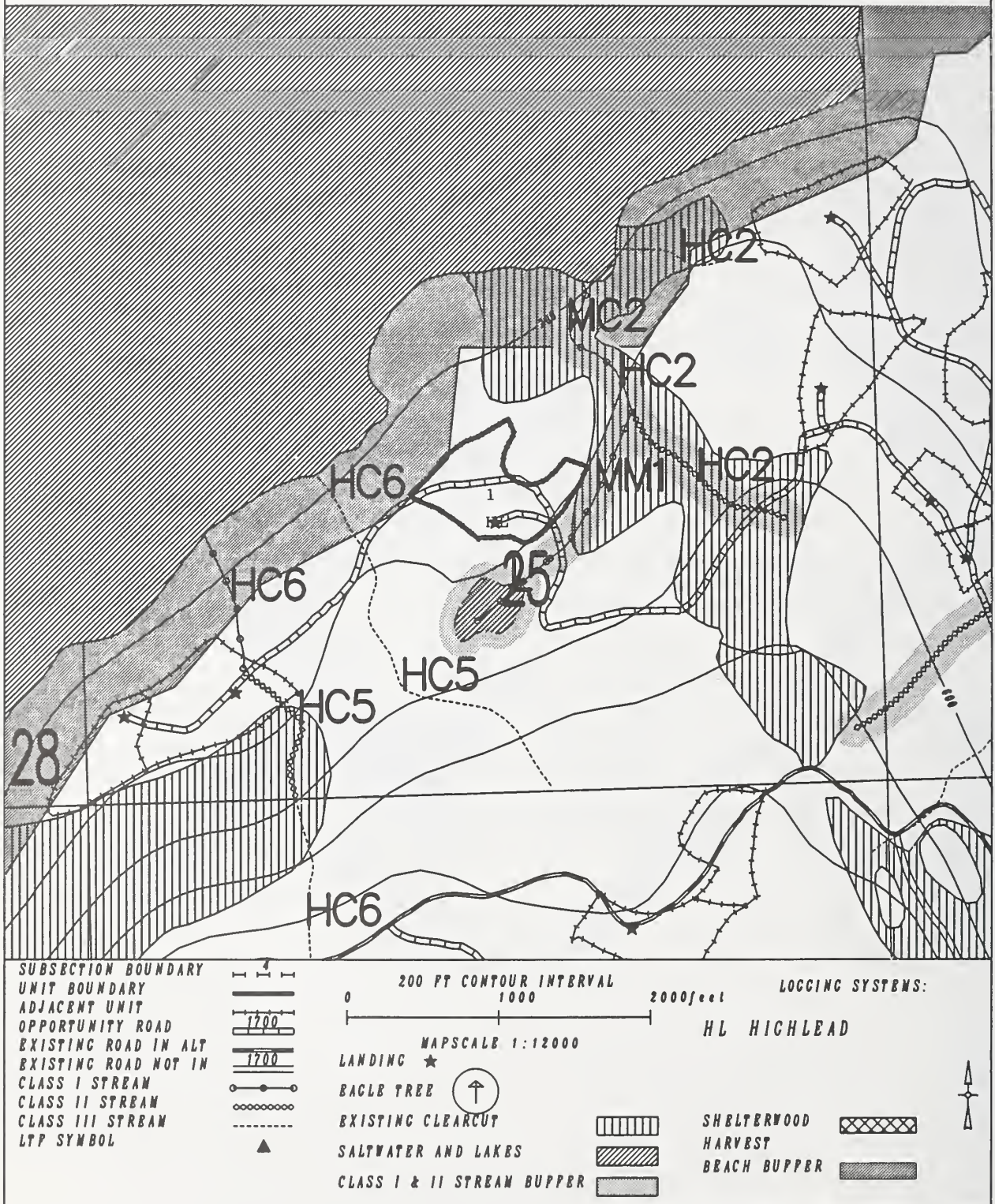
There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6043

PLANNED HARVEST UNIT MAP

ACRES: 11 VOLUME: 275 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-104 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6044</u>	No. Settings <u>2</u>	Alternatives considered <u>5</u>	VQO <u>M</u>
Planned acres <u>17</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>432</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>CMC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-104</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 16 acres VC5 1 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 17 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 16 acres Medium 0 acres High 1 acres Very High 0 acres
Cedar 0 Hemlock 17 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has 17 acres that may require partial or full suspension (BMP 13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 17 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the INNER NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

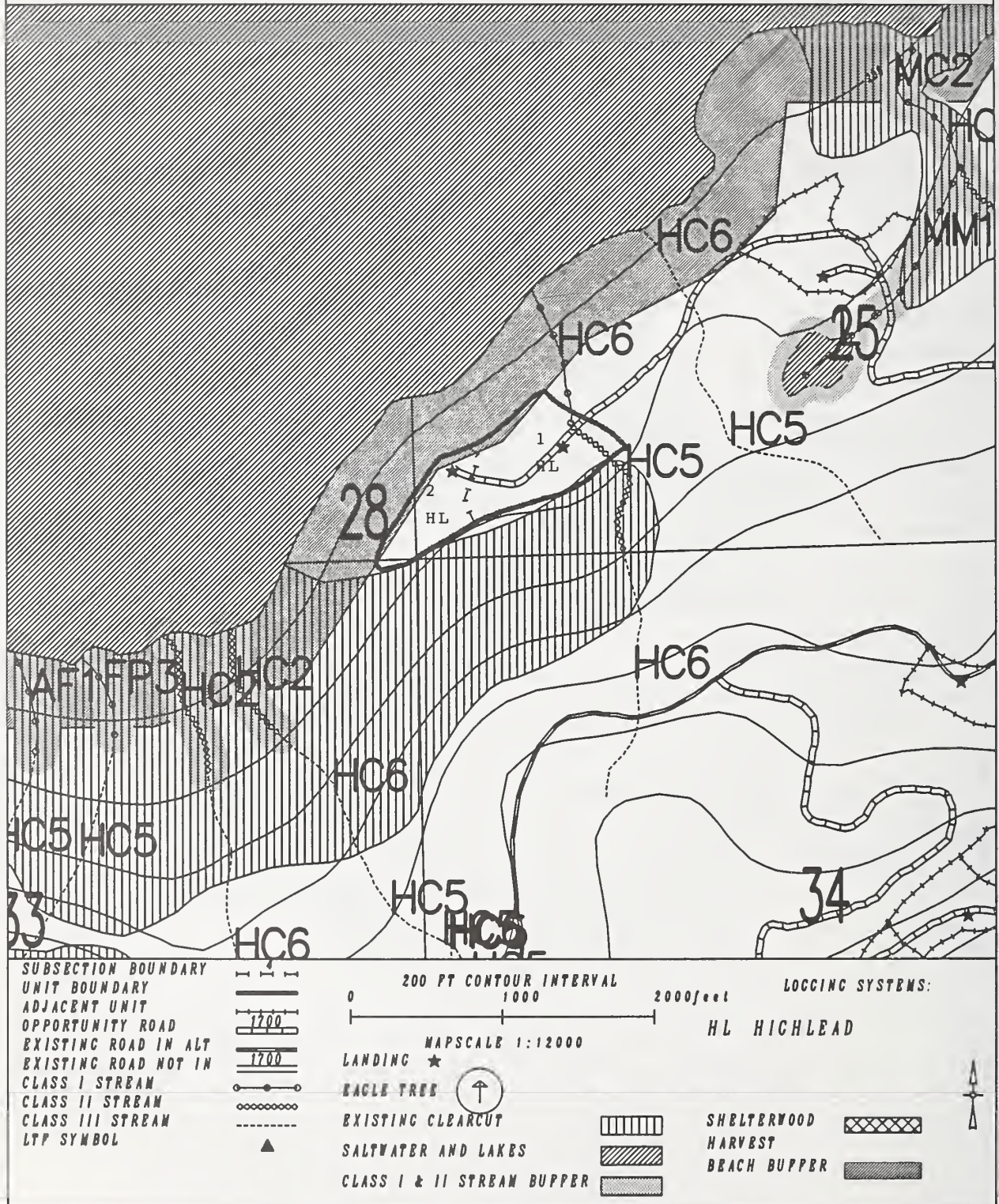
There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6044

PLANNED HARVEST UNIT MAP

ACRES: 17 VOLUME: 432 MBP QUAD(s): KTND5 QUARTER QUAD(s): SW5
 PHOTO NUM.: 1179-104 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6045</u>	No. Settings <u>3</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>18</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>480</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>MHA</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-133</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 12 acres VC5 6 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 18 acres
Mass movement index: Low 0 acres Medium 3 acres High 15 acres Very High 0 acres
Cedar 0 Hemlock 18 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has 18 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the INNER NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

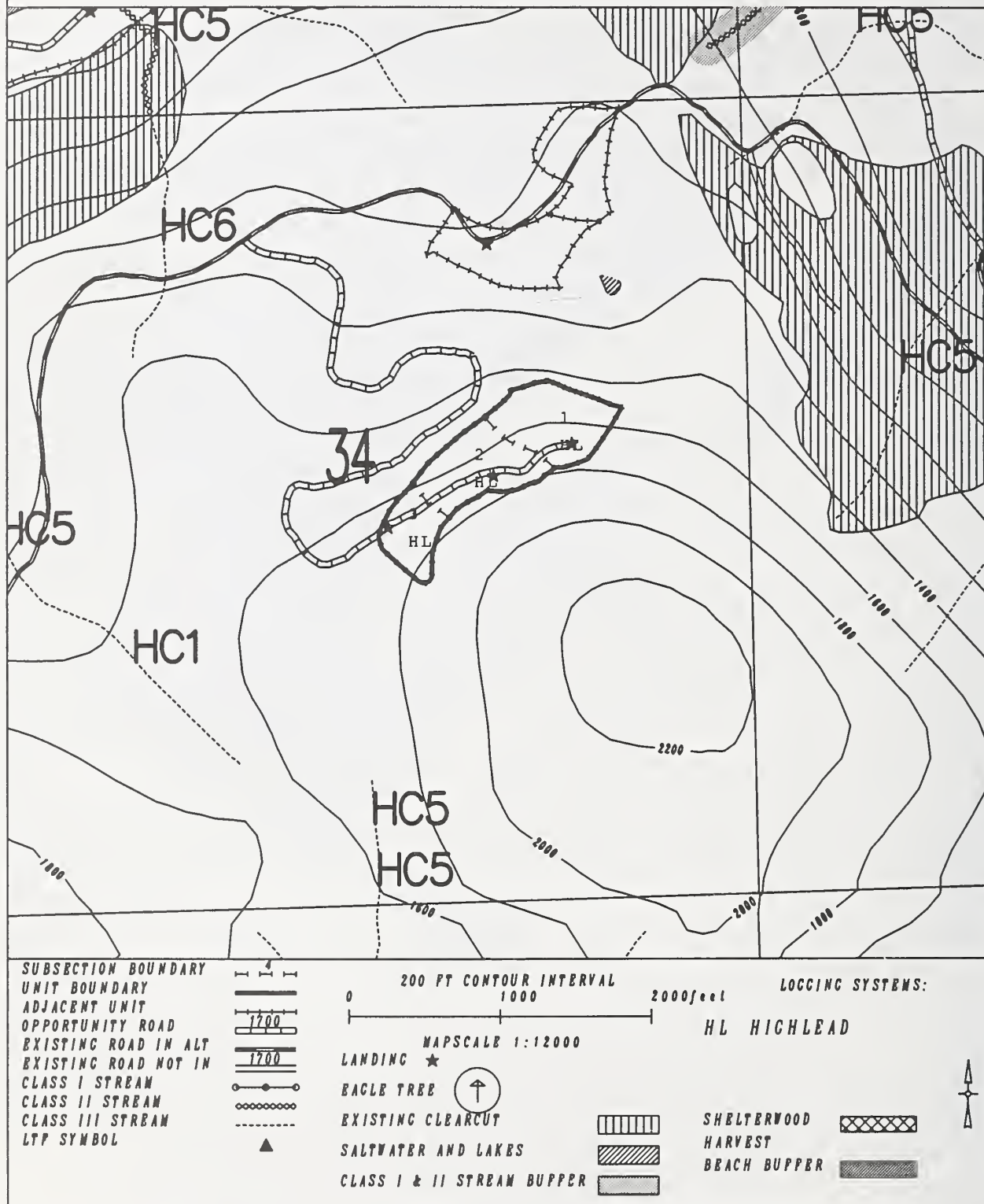
There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6045

PLANNED HARVEST UNIT MAP

ACRES: 18 VOLUME: 480 MBF QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-133 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6046</u>	No. Settings <u>2</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>15</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>375</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>CMB</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-133</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 15 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 15 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 13 acres High 2 acres Very High 0 acres
Cedar 0 Hemlock 13 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has 15 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 12 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the INNER NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

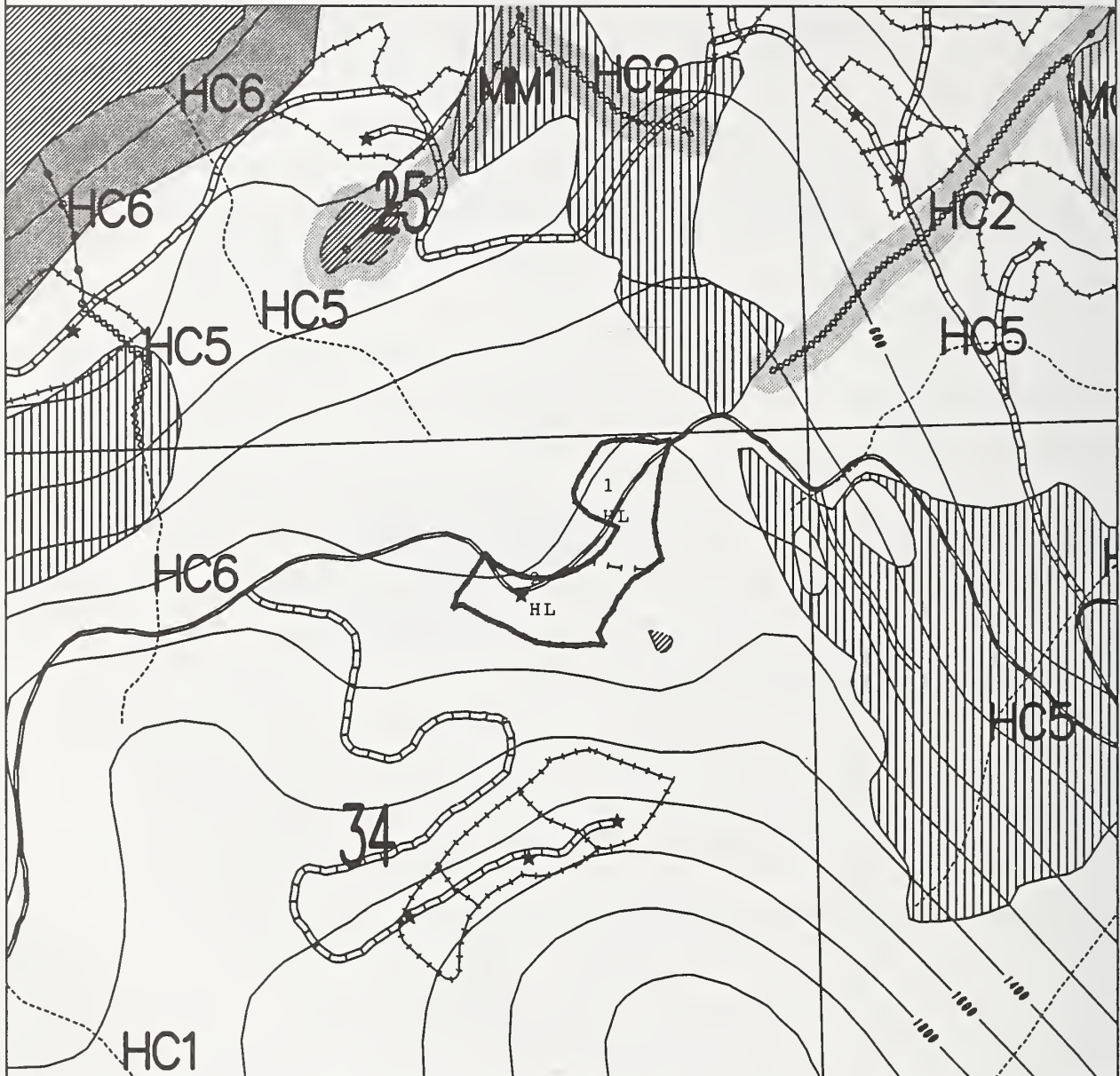
There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6046

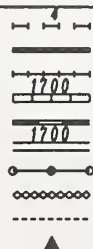
PLANNED HARVEST UNIT MAP

ACRES: 15 VOLUME: 375 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-133 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 PT CONTOUR INTERVAL
 0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGH LEAD



SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6047</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>M</u>
Planned acres <u>19</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>487</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>WHS</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-104</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 17 acres VC5 2 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 7 acres 1200-1500 ft. 8 acres over 1500 ft. 4 acres
Mass movement index: Low 0 acres Medium 0 acres High 19 acres Very High 0 acres
Cedar 0 Hemlock 17 Mixed 2 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has 19 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 16 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the INNER NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6047

PLANNED HARVEST UNIT MAP

ACRES: 19VOLUME: 487

MBP

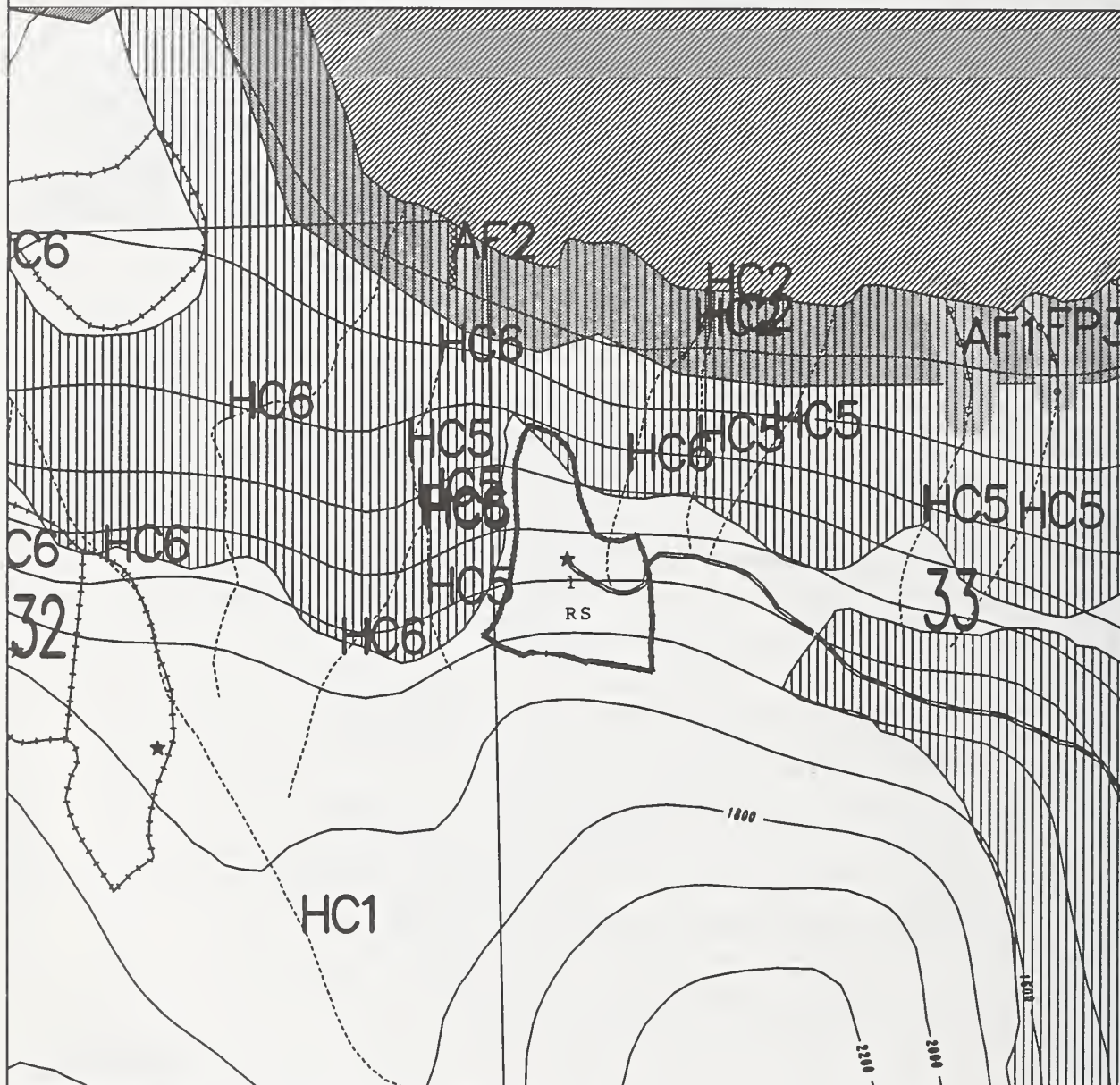
QUAD(s): KTND5QUARTER QUAD(s): SWSPHOTO NUM.: 1179-104

LANDNET INFO

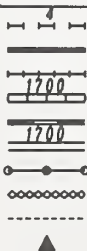
TOWNSHIP

70S — RANCR 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

RS RUNNING SKYLINE

SHELTERWOOD
HARVEST
BEACH BUFFER



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6048</u>	No. Settings <u>3</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>44</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1499</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>WHS</u>
Logging methods <u>RS</u> <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-70</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 19 acres VC5 0 acres VC6 25 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 5 acres 1200-1500 ft. 13 acres over 1500 ft. 26 acres
Mass movement index: Low 0 acres Medium 0 acres High 44 acres Very High 0 acres
Cedar 0 Hemlock 44 Mixed 0 Percent Seen 84 Percent Unseen 16 Aspect North

SOILS

This unit has 44 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 17 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the INNER NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

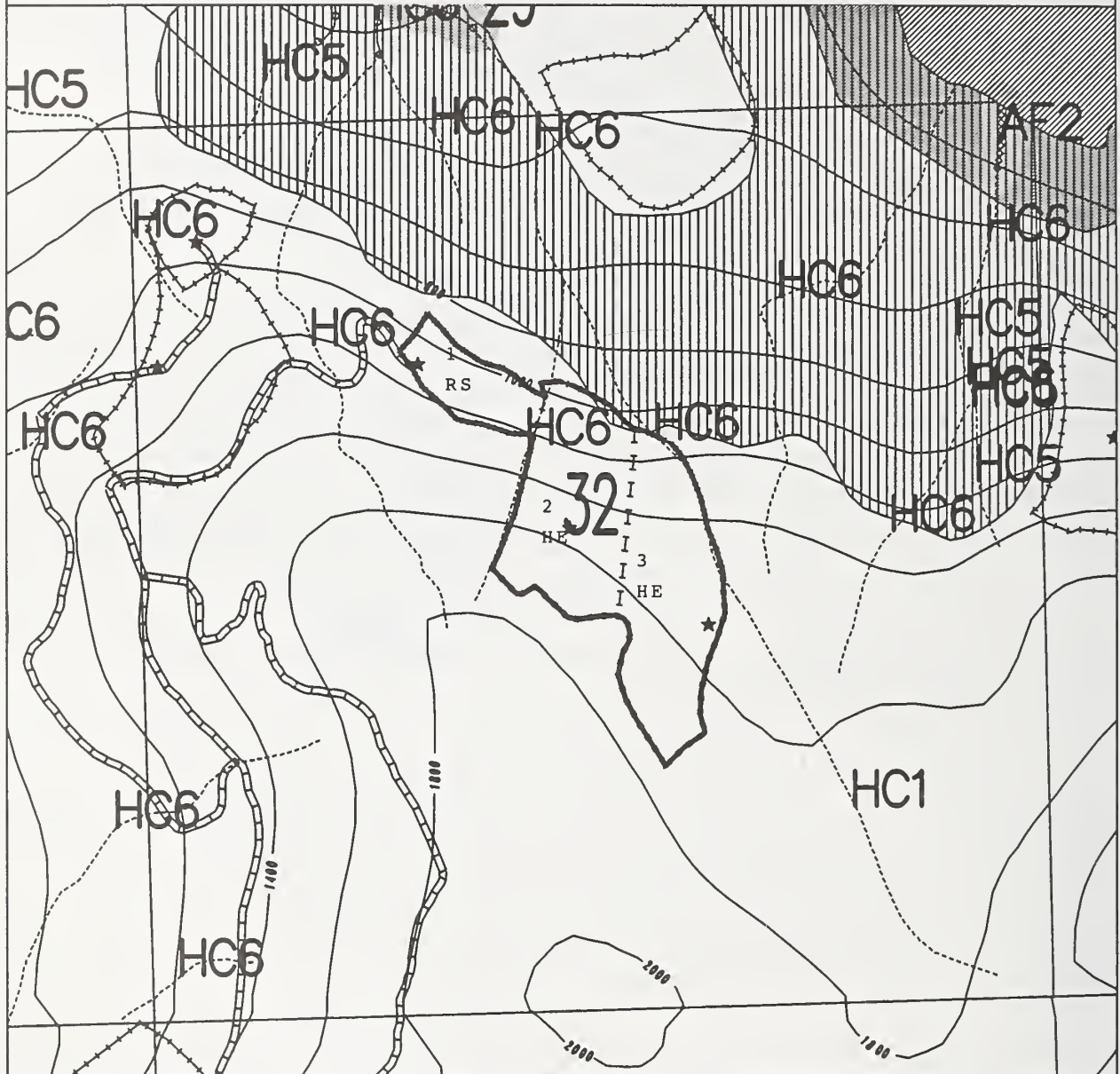
VCU: 7360

UNIT NUMBER: 6048

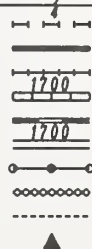
PLANNED HARVEST UNIT MAP

ACRES: 44 VOLUME: 1499 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-70 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE

HE HELICOPTER

SHELTERWOOD

HARVEST

BEACH BUFFER



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6049</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>20</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>627</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>WHS</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-71</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 20 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 20 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 20 acres Very High 0 acres
Cedar 0 Hemlock 19 Mixed 1 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has 20 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Maintain adequate distribution of snags by leaving 0.1 acre-sized patches of green trees within the unit for every 10 acres harvested. Snag patches must be compatible with logging system and safe working conditions.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the INNER NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

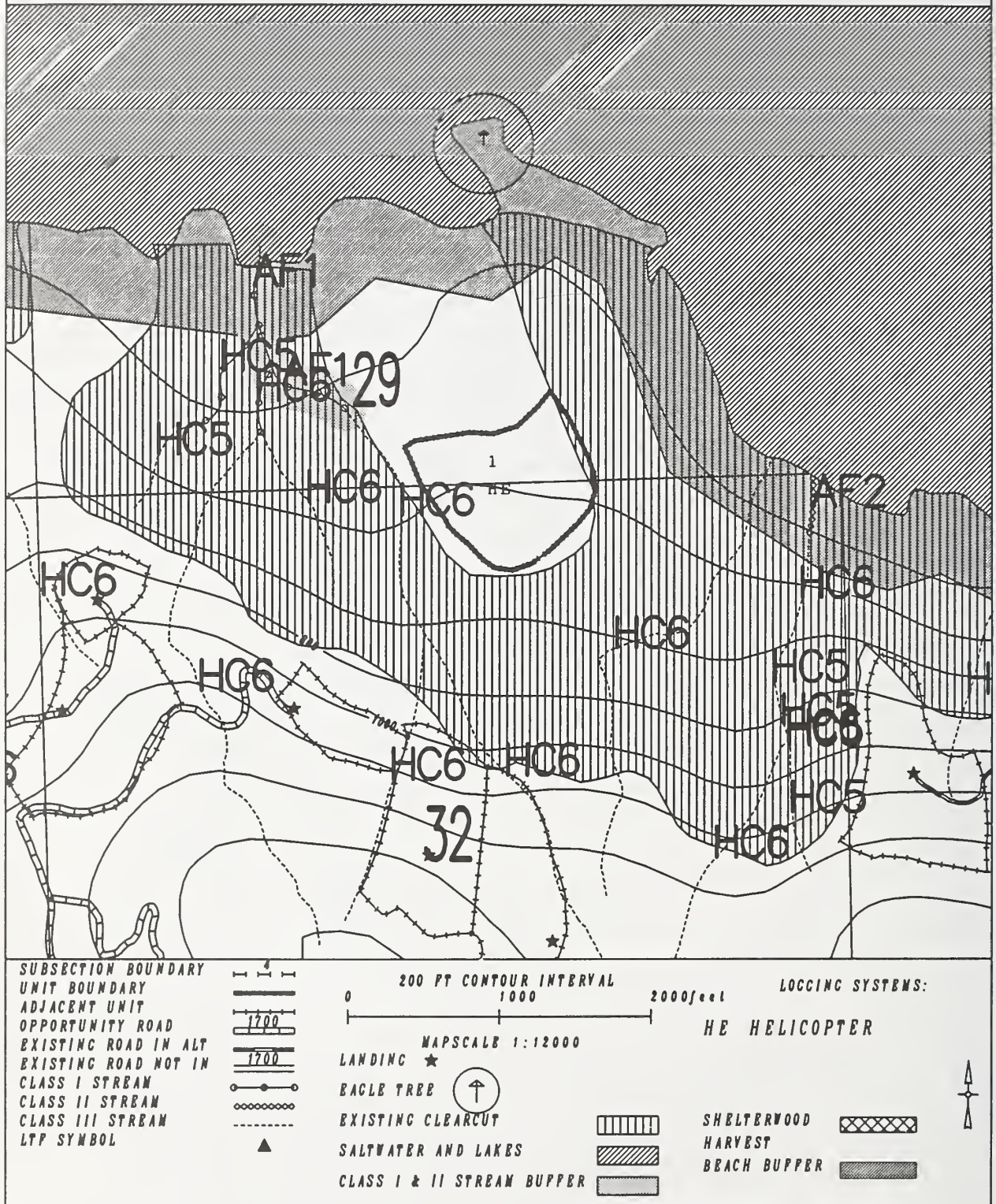
VCU: 7360

UNIT NUMBER: 6049

PLANNED HARVEST UNIT MAP

ACRES: 20 VOLUME: 627 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-71 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6050</u>	No. Settings <u>2</u>	Alternatives considered <u>5</u>	VQO <u>M</u>
Planned acres <u>27</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1107</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>WDC</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-70</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 0 acres VC6 27 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 27 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 26 acres High 16 acres Very High 0 acres
Cedar 0 Hemlock 26 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the INNER NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

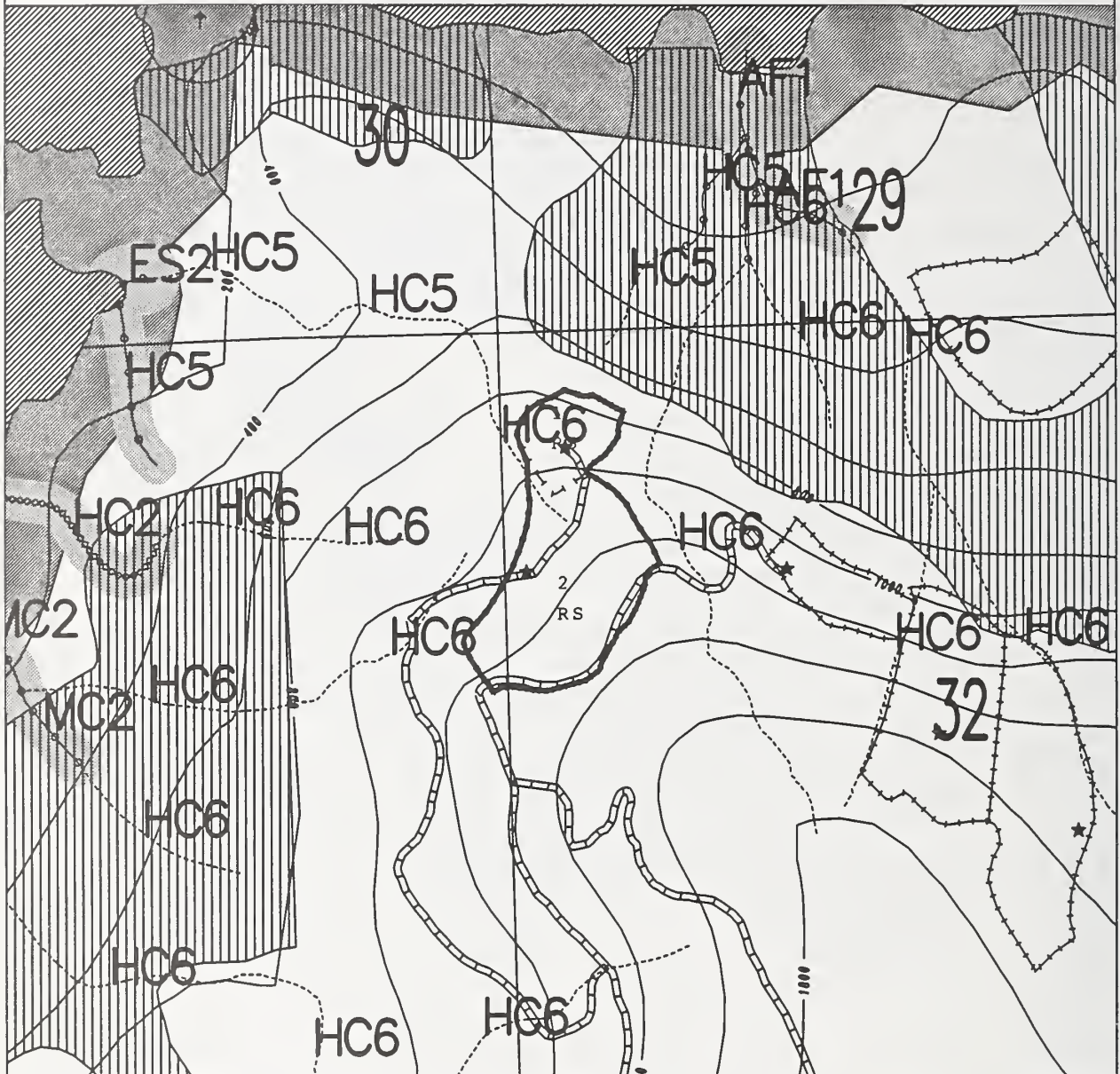
There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6050

PLANNED HARVEST UNIT MAP

ACRES: 27 VOLUME: 1107 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-70 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6051</u>	No. Settings <u>3</u>	Alternatives considered <u>5</u>	VQO <u>M</u>
Planned acres <u>56</u>		Quad <u>KTNC5NWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2006</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>CCS</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-68</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 24 acres VC6 32 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 14 acres 1200-1500 ft. 26 acres over 1500 ft. 16 acres
Mass movement index: Low 7 acres Medium 3 acres High 46 acres Very High 0 acres
Cedar 0 Hemlock 0 Mixed 56 Percent Seen 82 Percent Unseen 18 Aspect West

SOILS

This unit has 56 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 17 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the BEHM/SW WEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

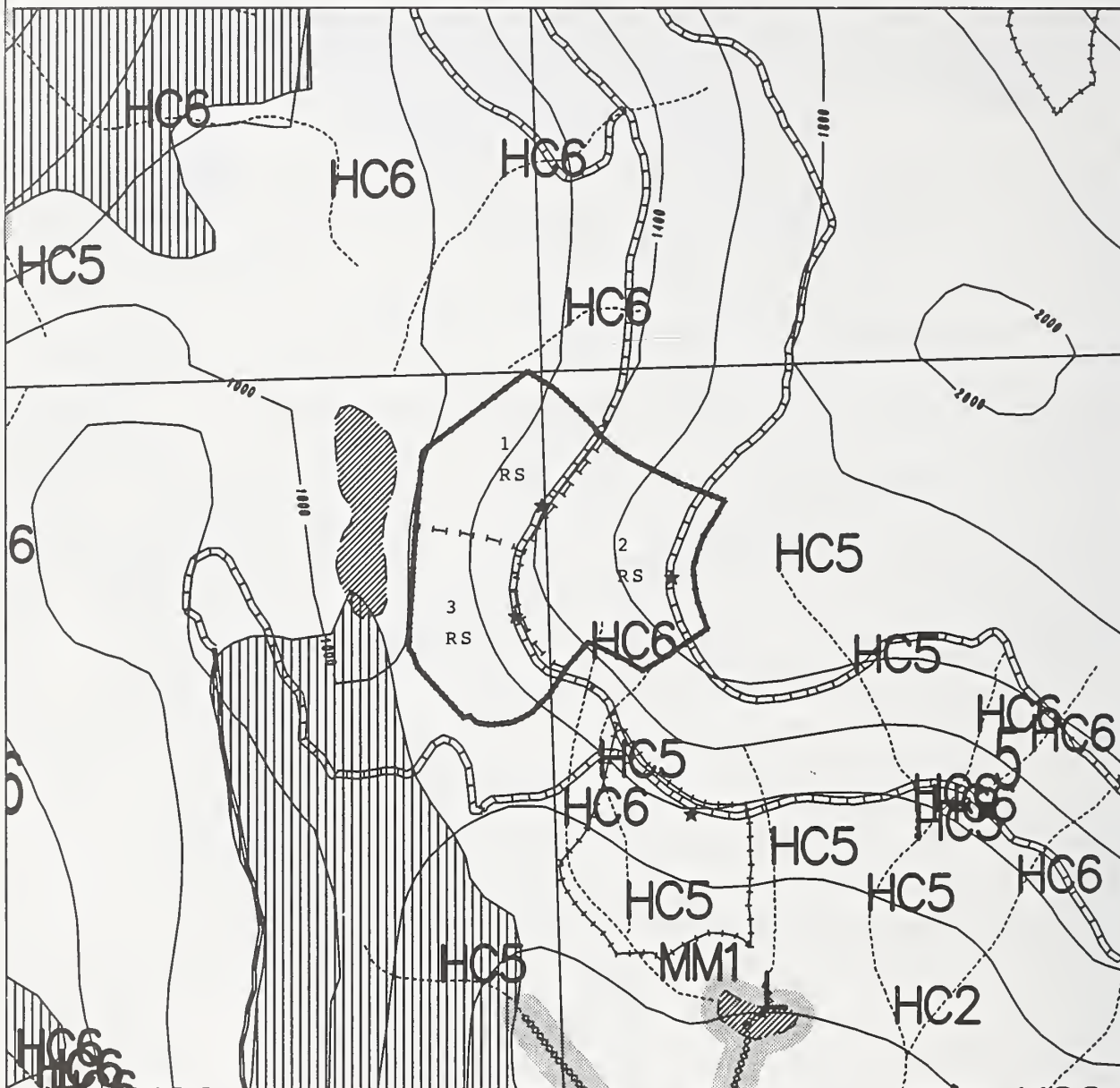
There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6051

PLANNED HARVEST UNIT MAP

ACRES: 56 VOLUME: 2006 MBP QUAD(~~KT~~)ND5/KTNC5 QUARTER QUAD(s):SWS/NWN
 PHOTO NUM.: 1779-68 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



0 200 FT CONTOUR INTERVAL 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

RS RUNNING SKYLINE

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6052</u>	No. Settings <u>4</u>	Alternatives considered <u>4</u>	VQO <u>MM</u>
Planned acres <u>86</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2300</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>CCS</u>
Logging methods <u>HL SL RS</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-100</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 62 acres VC5 24 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 37 acres 800-1200 ft. 36 acres 1200-1500 ft. 13 acres over 1500 ft. 0 acres
Mass movement index: Low 63 acres Medium 20 acres High 3 acres Very High 0 acres
Cedar 0 Hemlock 32 Mixed 54 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 86 acres that may require partial or full suspension (BMP 13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 23 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nest site is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the BEHM/NW NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

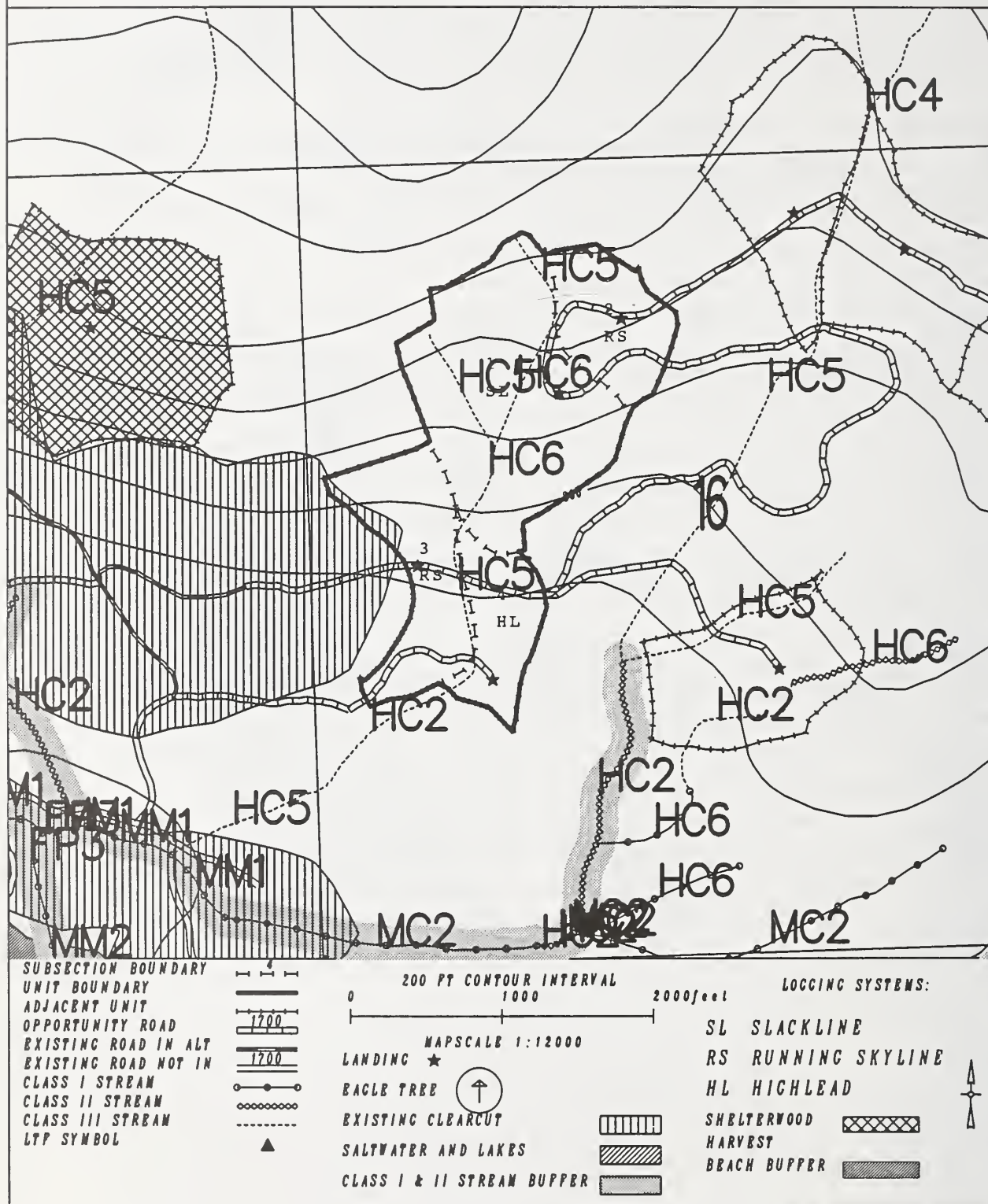
VCU: 7360

UNIT NUMBER: 6052

PLANNED HARVEST UNIT MAP

ACRES: 86 VOLUME: 2300 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-100 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit 6053 No. Settings 1Planned acres 25Estimated volume (mbf) 784Logging methods HLSilvicultural system ClearcutAlternatives considered 4Quad KTND5SWSMgmt Area K32 VCU 7360WAA 5101981 Photo 1179-101VQO MWindthrow risk HPlant Series CCSForest type Hemlock

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 25 acres VC6 0 acres VC7 0 acresElevation breakdown: 0-800 ft. 25 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acresMass movement index: Low 7 acres Medium 0 acres High 18 acres Very High 0 acresCedar 0 Hemlock 25 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has 25 acres that may require partial or full suspension (BMP 13.9)

This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)

This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

This unit contains 17 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the BEHM/NW NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.

There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6053

PLANNED HARVEST UNIT MAP

ACRES: 25VOLUME: 784

MBP

QUAD(s): KTND5QUARTER QUAD(s): SWS

PHOTO NUM.:

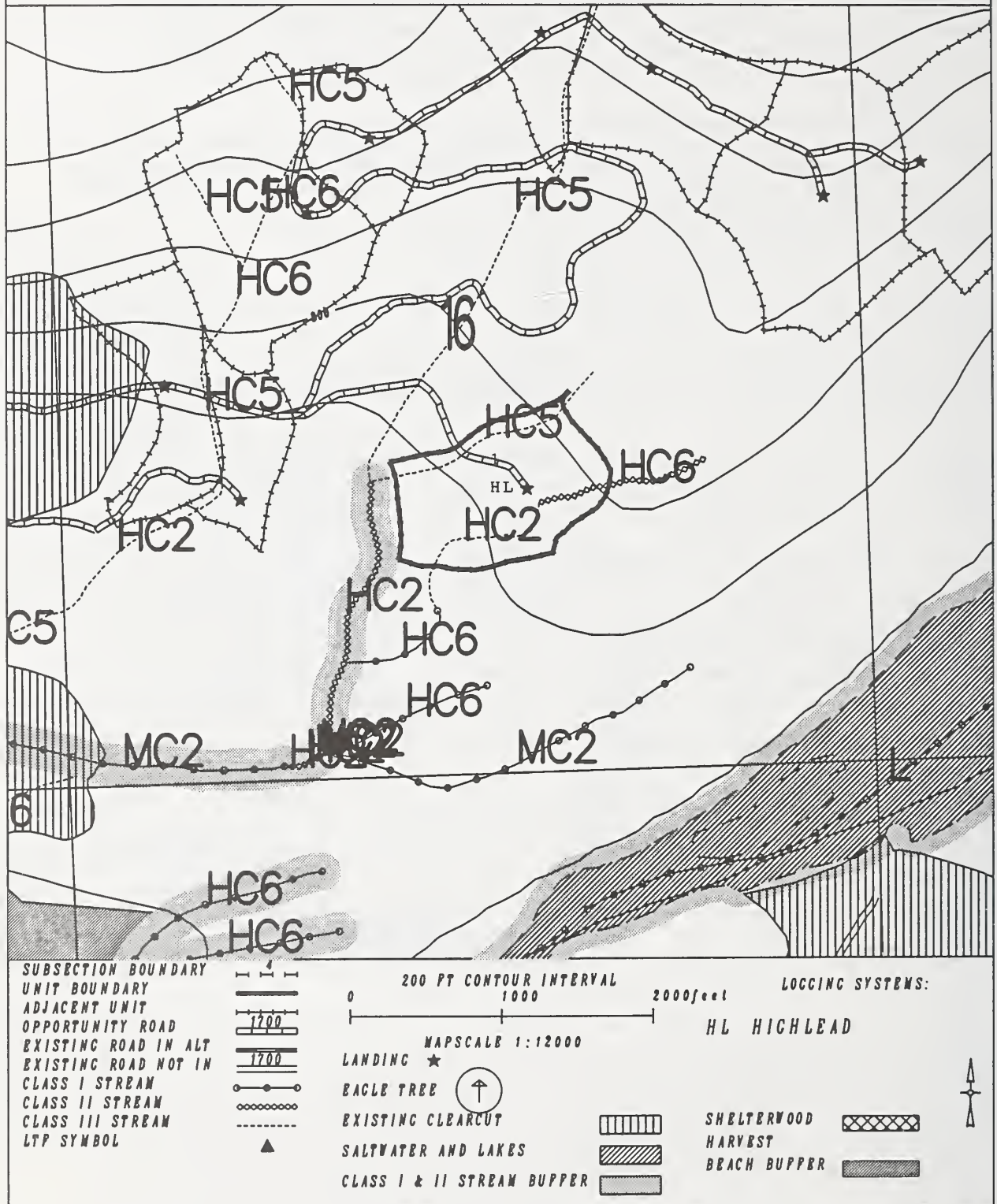
1179-101

LANDNET INFO

TOWNSHIP

70SRANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6054</u>	No. Settings <u>2</u>	Alternatives considered <u>4</u>	VQO <u>MM</u>
Planned acres <u>11</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>273</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>MHA</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-133</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 10 acres VC5 1 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 11 acres
Mass movement index: Low 0 acres Medium 3 acres High 8 acres Very High 0 acres
Cedar 0 Hemlock 11 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has 11 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the INNER NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

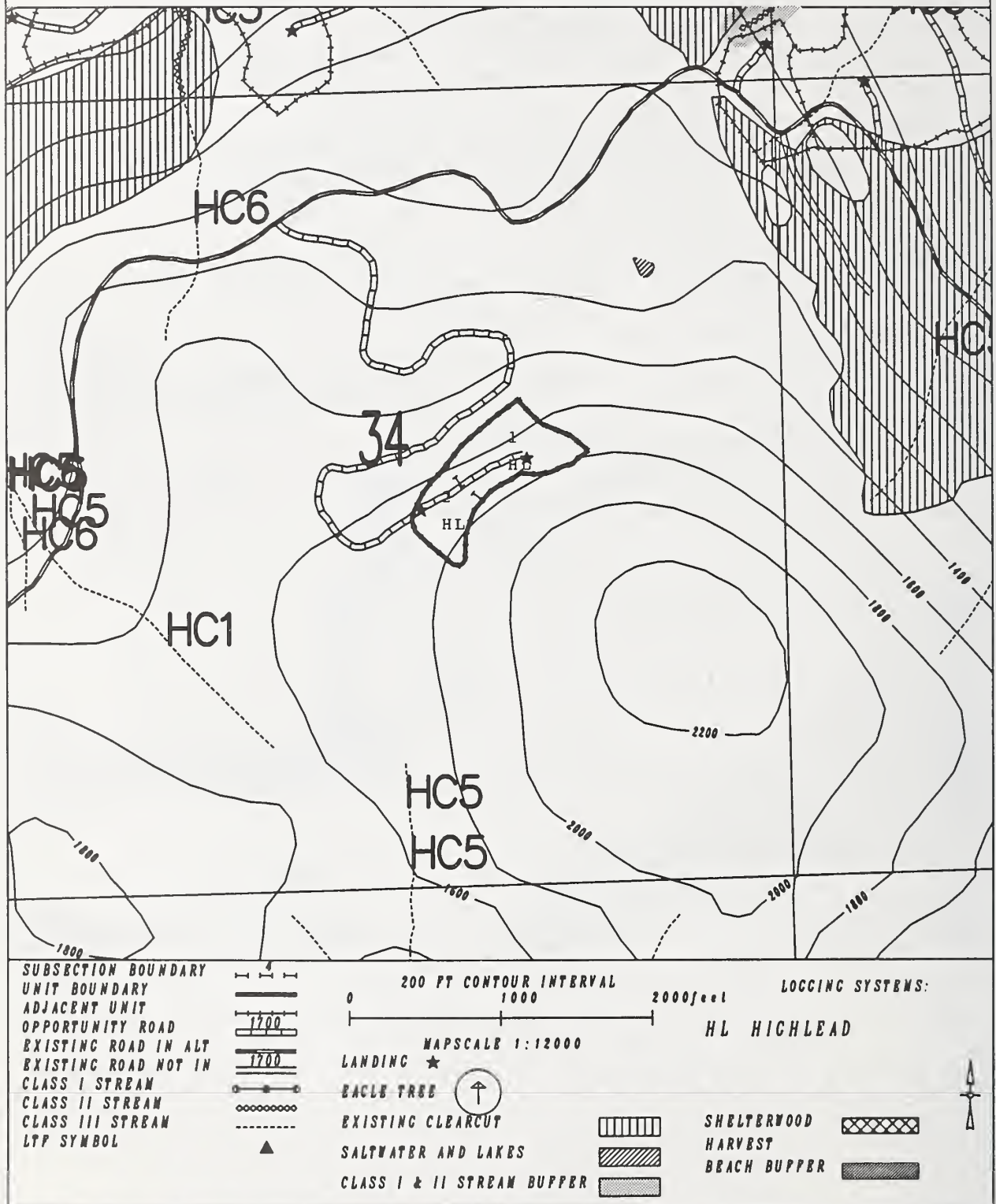
There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6054

PLANNED HARVEST UNIT MAP

ACRES: 11 VOLUME: 273 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-133 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6055</u>	No. Settings <u>6</u>	Alternatives considered <u>4</u>	VQO <u>MM</u>
Planned acres <u>59</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1550</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>WDC</u>
Logging methods <u>HL RS LS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-134</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 47 acres VC5 12 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 59 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 2 acres Medium 22 acres High 35 acres Very High 0 acres
Cedar 0 Hemlock 57 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has 59 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit contains 17 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nestsite is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the _____ viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6055

PLANNED HARVEST UNIT MAP

ACRES: 59VOLUME: 1550

MBP

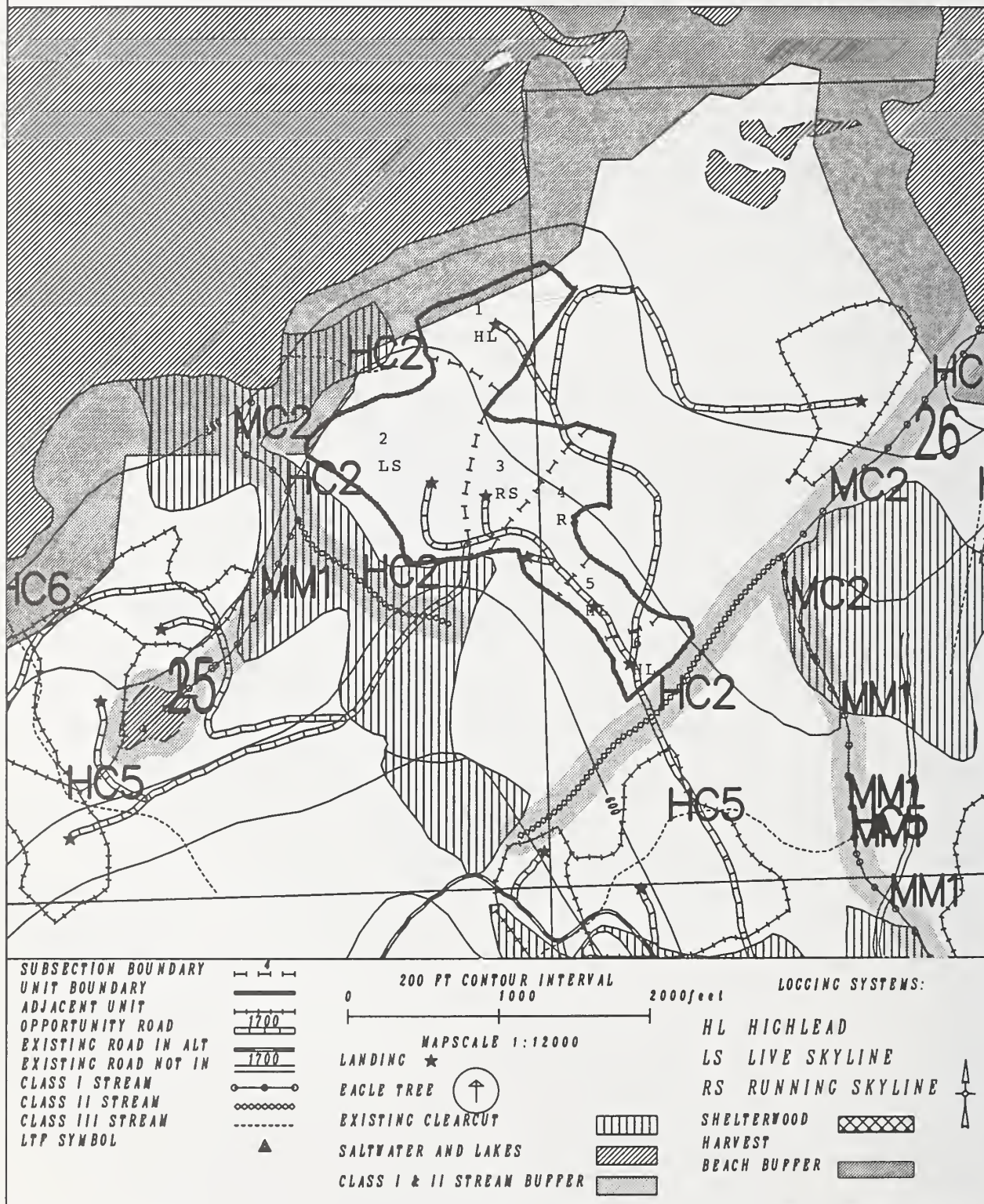
QUAD(s): KTND5QUARTER QUAD(s): SWSPHOTO NUM.: 1179-124

LANDNET INFO

TOWNSHIP

70SRANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>6513</u>	No. Settings <u>3</u>	Alternatives considered <u>6</u>	VQO <u>MM</u>
Planned acres <u>21</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u> </u>
Estimated volume (mbf) <u>628</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u> </u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u> </u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-13</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 5 acres VC5 16 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 21 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 7 acres High 14 acres Very High 0 acres
Cedar 0 Hemlock 21 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit contains 7 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

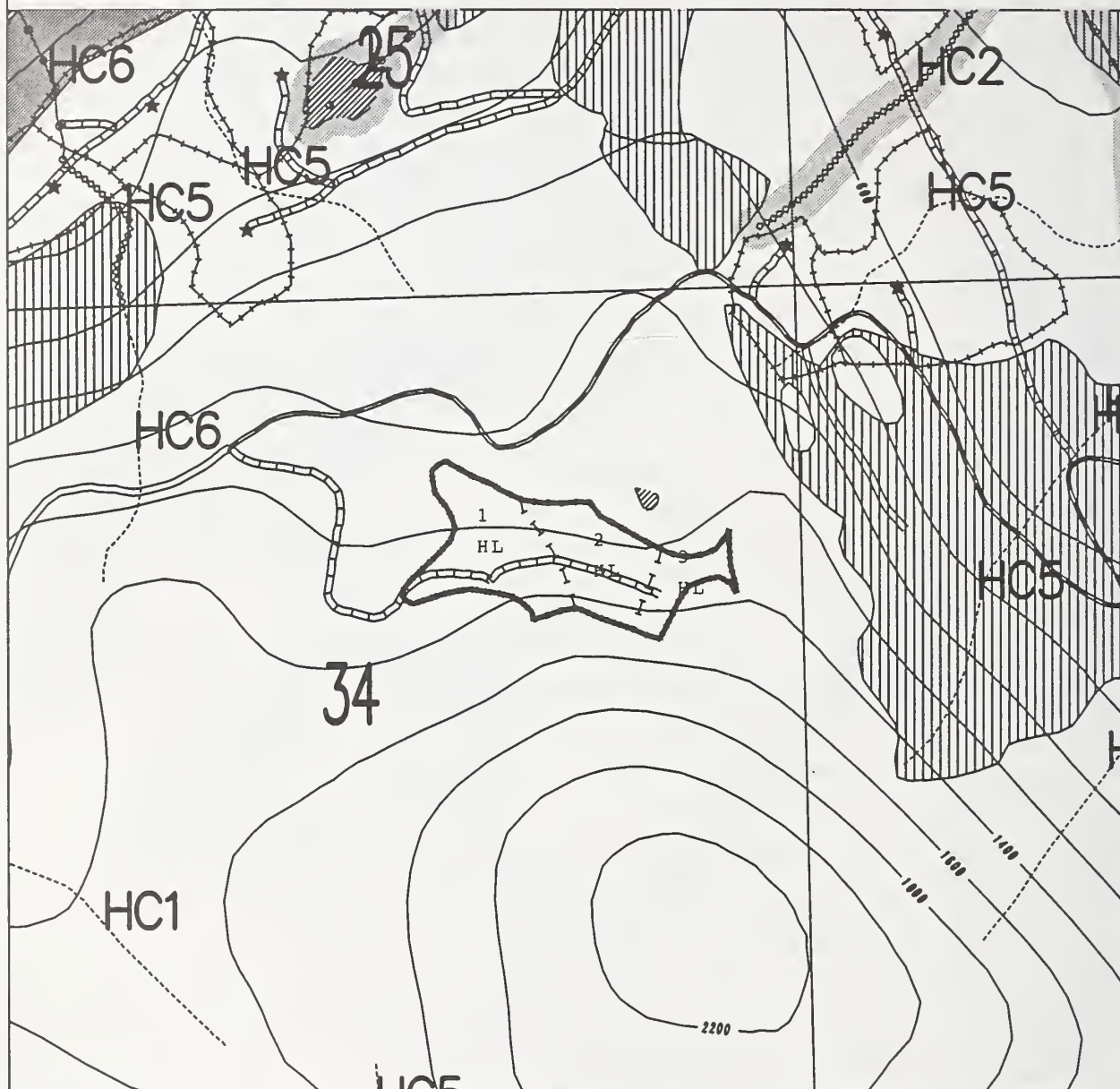
There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 6513

PLANNED HARVEST UNIT MAP

ACRES: 21 VOLUME: 628 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-13 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BAGLE TREE (upward arrow in circle)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



SHelterWOOD
 HARVEST
 BEACH BUFFER

LOGGING SYSTEMS:

HL HIGHLEAD



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7000</u>	No. Settings <u>1</u>	Alternatives considered <u>4</u>	VQO <u>M</u>
Planned acres <u>14</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>439</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WDC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-134</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 14 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 14 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 14 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 13 Mixed 0 Percent Seen 71 Percent Unseen 29 Aspect East

SOILS

This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nestsite is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

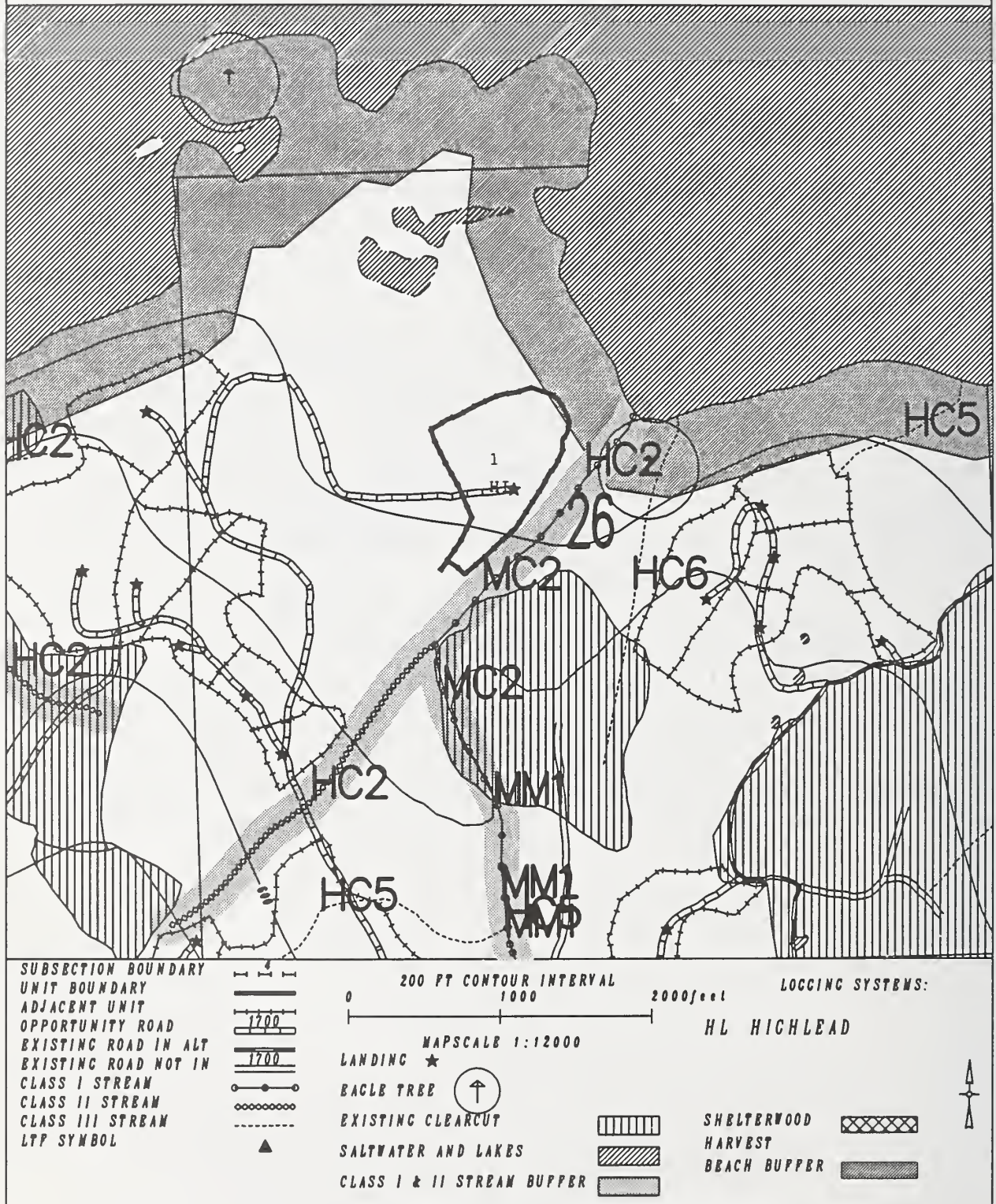
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7000

PLANNED HARVEST UNIT MAP

ACRBS: 14 VOLUME: 439 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-134 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7001</u>	No. Settings <u>4</u>	Alternatives considered <u>2</u> <u>5</u>	VQO <u>M</u>
Planned acres <u>66</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2231</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>CCD</u>
Logging methods <u>HL</u> <u>LS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-139</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 17 acres VC5 21 acres VC6 28 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 10 acres 800-1200 ft. 56 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 9 acres Medium 0 acres High 57 acres Very High 0 acres
Cedar 0 Hemlock 66 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect East

SOILS

This unit has 66 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 51 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 6 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).
Oversteepened slopes may require full bench construction on 0.03 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

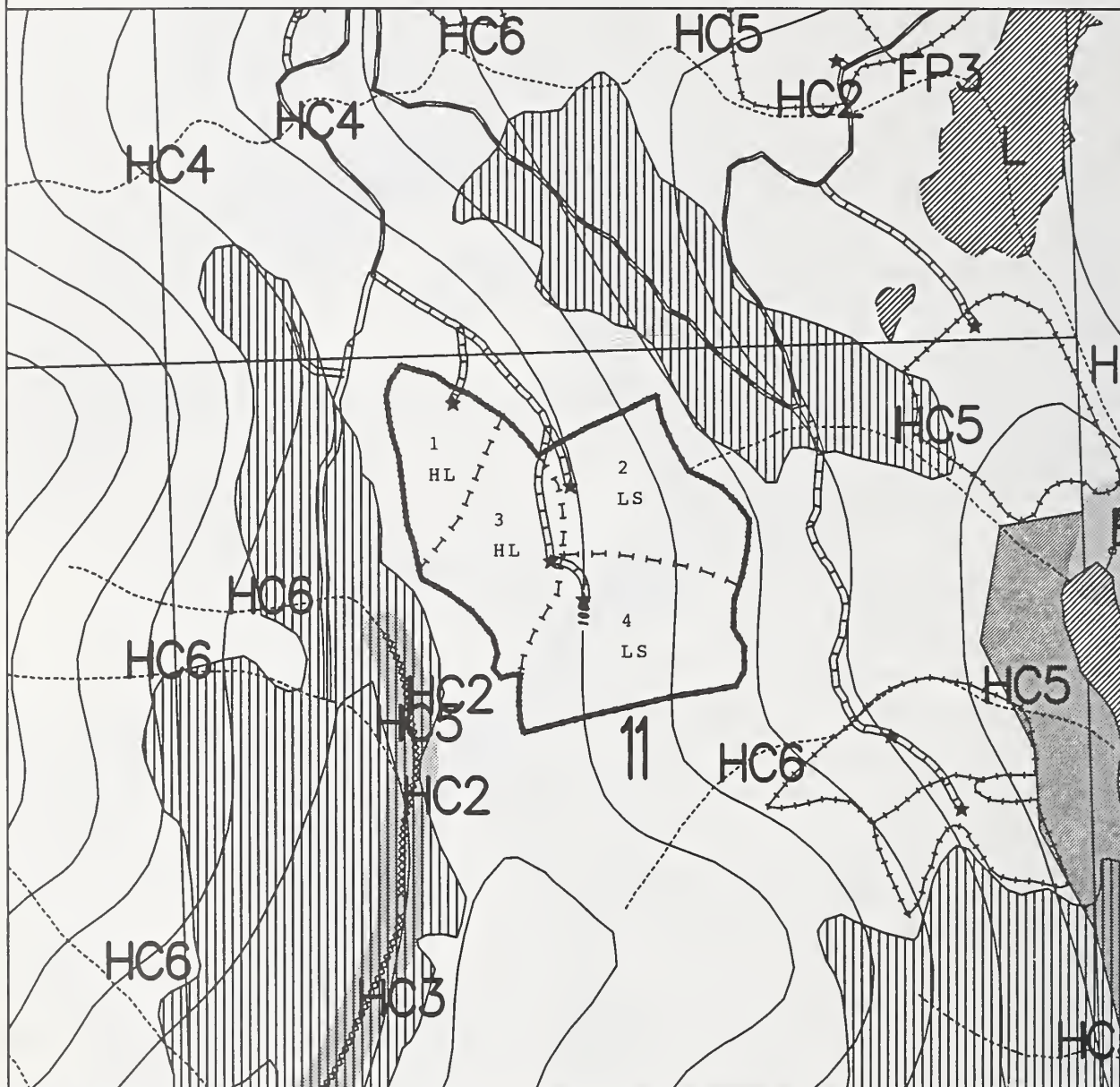
There are no geological mitigation measures anticipated for this unit.

VCU: 7360UNIT NUMBER: 7001

PLANNED HARVEST UNIT MAP

ACRES: 66 VOLUME: 2231 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWN
 PHOTO NUM.: 1179-139 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

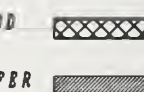
HL HIGHLEAD

LS LIVE SKYLINE

SHUTTERWOOD

HARVEST

BEACH BUFFER



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7002</u>	No. Settings <u>2</u>	Alternatives considered <u>2</u> <u>5</u>	VQO <u>PR</u>
Planned acres <u>33</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1035</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>CCS</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-140</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 33 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 13 acres 800-1200 ft. 20 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 5 acres Medium 28 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 29 Mixed 4 Percent Seen 100 Percent Unseen 0 Aspect East

SOILS

This unit has 33 acres that may require partial or full suspension (BMP 13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)
This unit contains 27 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nestsite is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the BEHM/GEDNEY PASS viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

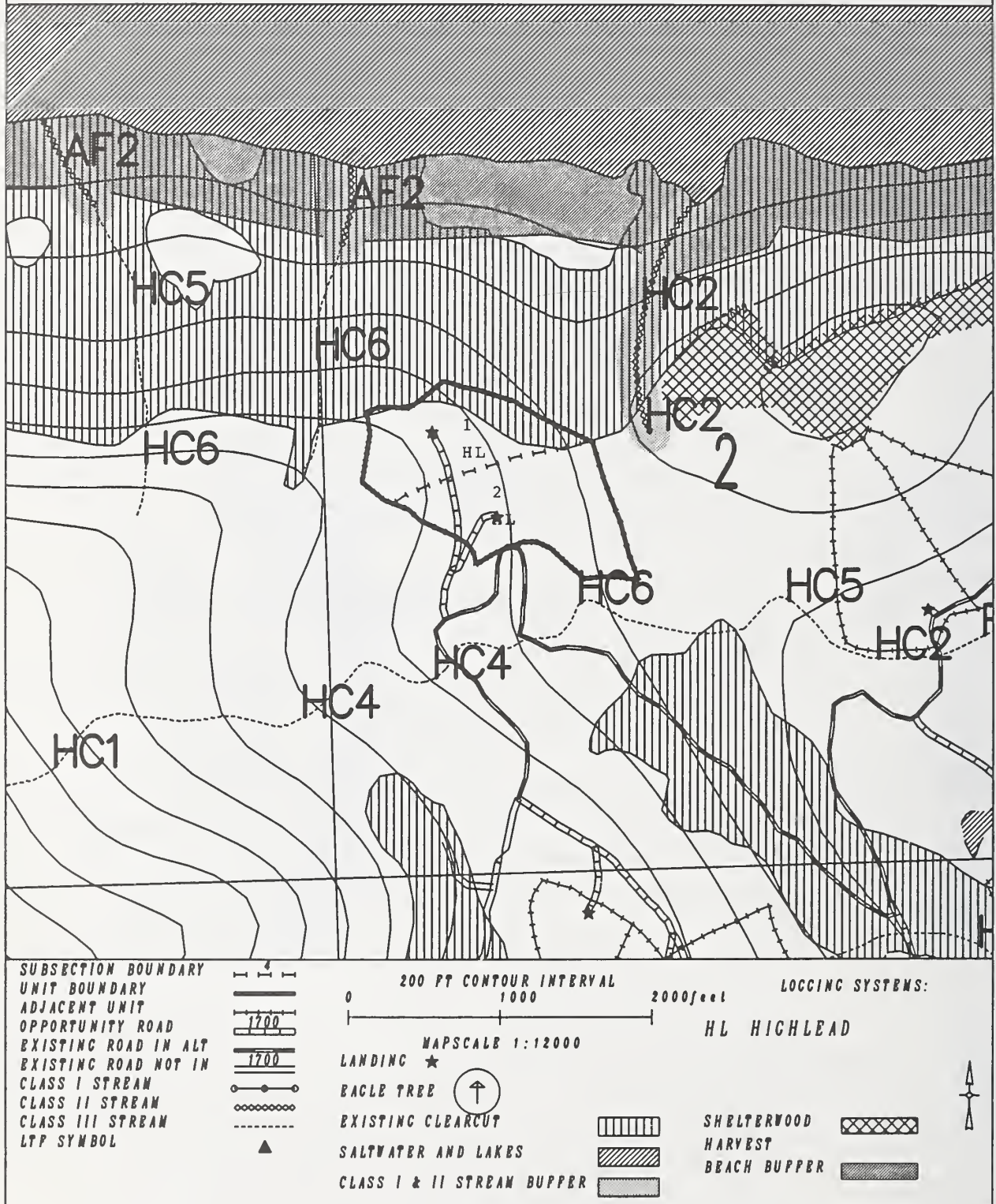
There are no geological mitigation measures anticipated for this unit.

VCU: 7350UNIT NUMBER: 7002

PLANNED HARVEST UNIT MAP

ACRES: 33 VOLUME: 1035 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWN
 PHOTO NUM.: 1179-140 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7003</u>	No. Settings <u>2</u>	Alternatives considered <u>2 3 5</u>	VQO <u>M</u>
Planned acres <u>37</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1160</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CCS</u>
Logging methods <u>SL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-140</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 37 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 37 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 7 acres Medium 30 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 31 Mixed 0 Percent Seen 69 Percent Unseen 31 Aspect West

SOILS

This unit has 37 acres that may require partial or full suspension (BMP 13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 30 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nestsite is active follow the intra-agency agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR WHPA DEIS

Unit <u>7004</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u> <u>5</u>	VQO <u>M</u>
Planned acres <u>22</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>690</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CCD</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-154</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 22 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 22 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 22 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 21 Mixed 1 Percent Seen 82 Percent Unseen 18 Aspect East

SOILS

This unit has 22 acres that may require partial or full suspension (BMP 13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 21 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Maintain adequate distribution of snags by leaving 0.1 acre-sized patches of green trees within the unit for every 10 acres harvested. Snag patches must be compatible with logging system and safe working conditions.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

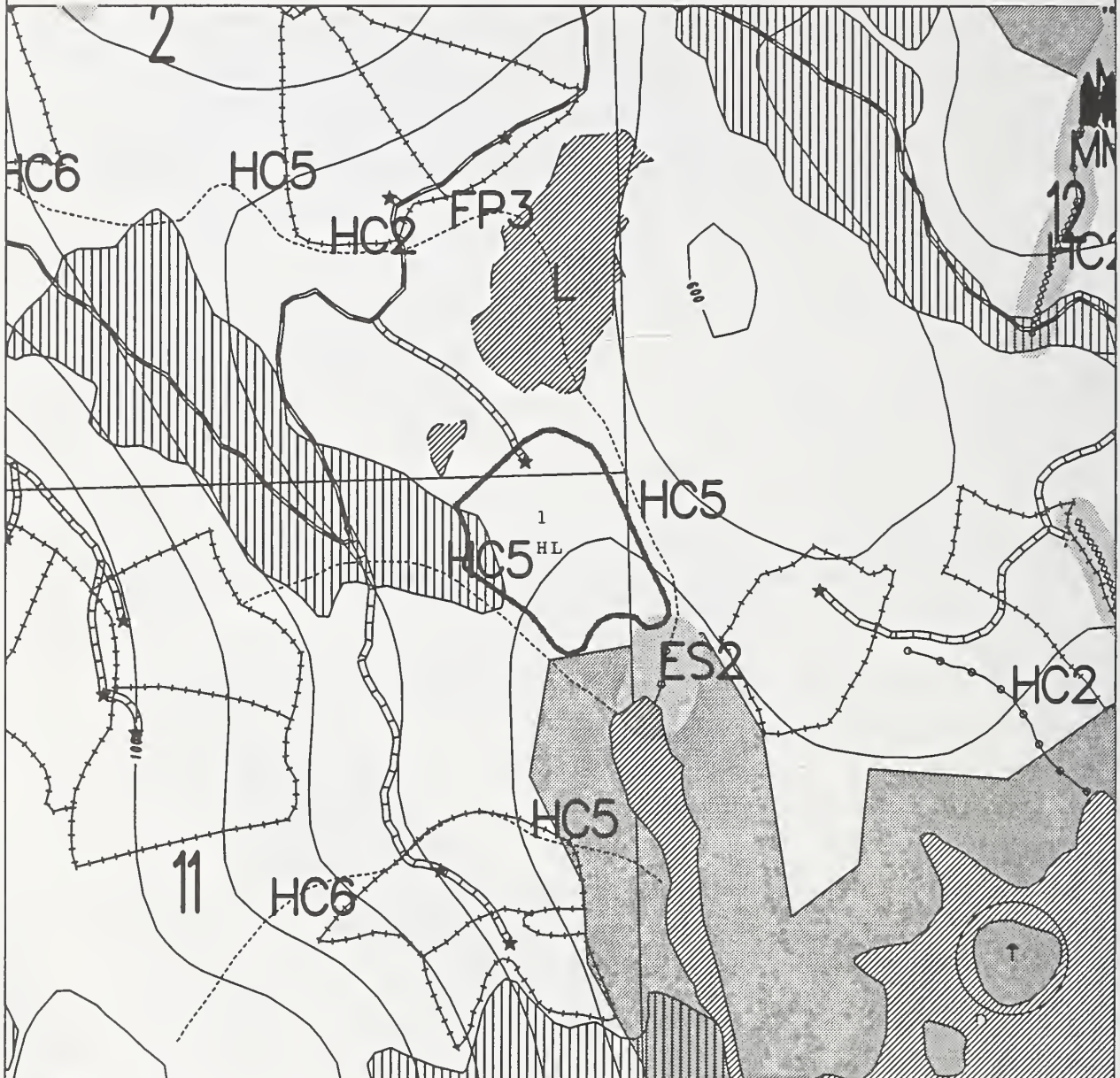
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7004

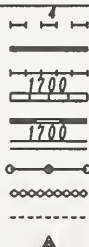
PLANNED HARVEST UNIT MAP

ACRES: 22 VOLUME: 690 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWN
 PHOTO NUM.: 1179-154 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGHLEAD

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 09, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7005</u>	No. Settings <u>2</u>	Alternatives considered <u>2</u>	<u>5</u>	VQO <u>M</u>
Planned acres <u>26</u>		Quad <u>KTND5SWN</u>		Windthrow risk <u>H</u>
Estimated volume (mbf) <u>835</u>		Mgmt Area <u>K32</u>	VCU <u>7370</u>	Plant Series <u>WHS</u>
Logging methods <u>HL</u>	<u>RS</u>	WAA <u>510</u>		Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-154</u>		

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 24 acres VC6 2 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 26 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 17 acres High 9 acres Very High 0 acres
Cedar 0 Hemlock 14 Mixed 12 Percent Seen 100 Percent Unseen 0 Aspect East

SOILS

This unit has 26 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 8 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Potentially very low volume per acre.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

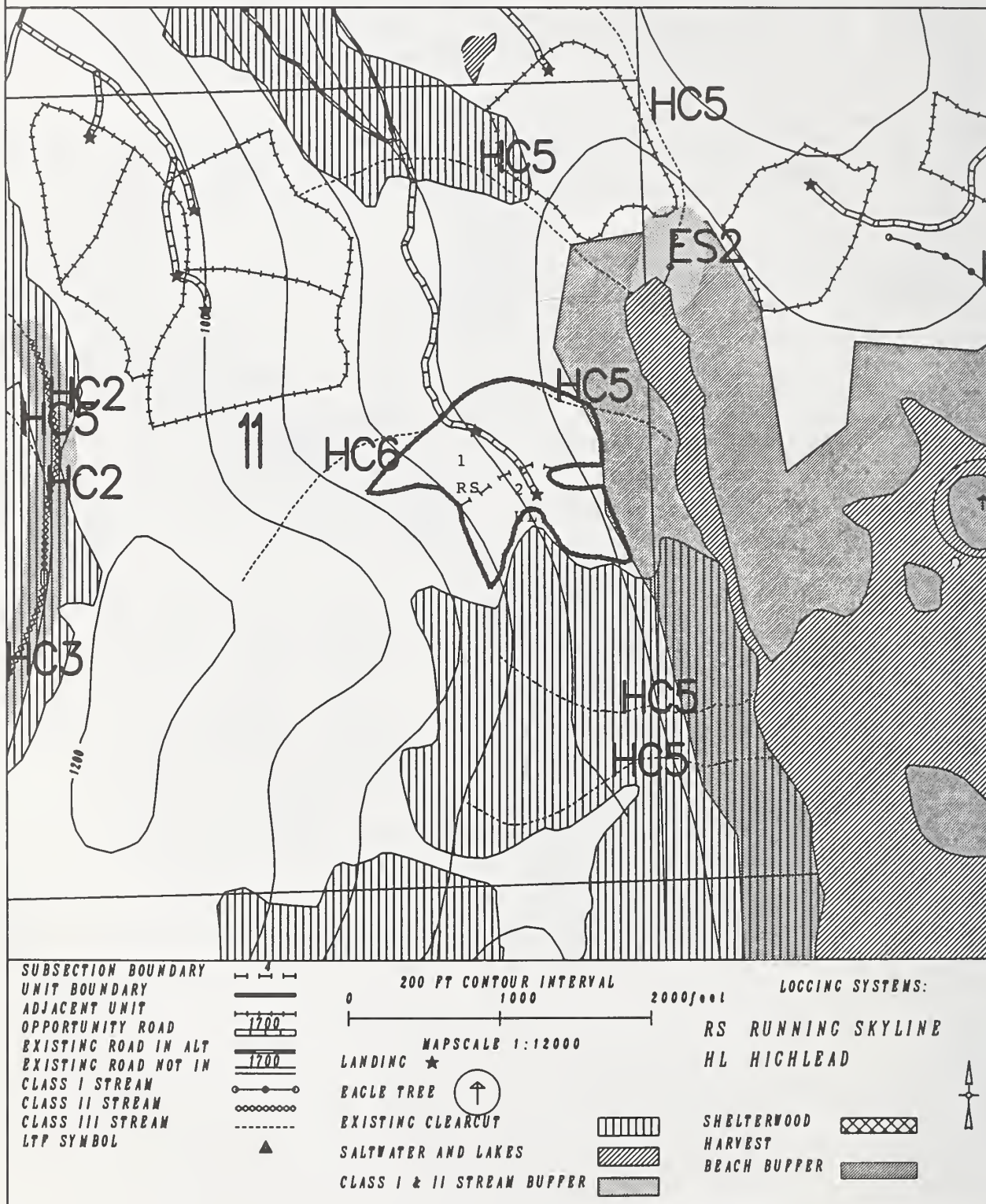
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7005

PLANNED HARVEST UNIT MAP

ACRES: 26 VOLUME: 835 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWN
 PHOTO NUM.: 1179-154 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 09, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7006</u>	No. Settings <u>2</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>32</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1003</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WHC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-154</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 32 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 32 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 22 acres High 10 acres Very High 0 acres
Cedar 0 Hemlock 32 Mixed 0 Percent Seen 58 Percent Unseen 42 Aspect West

SOILS

This unit has 32 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 28 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nest site is active follow the intra-agency agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.

There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

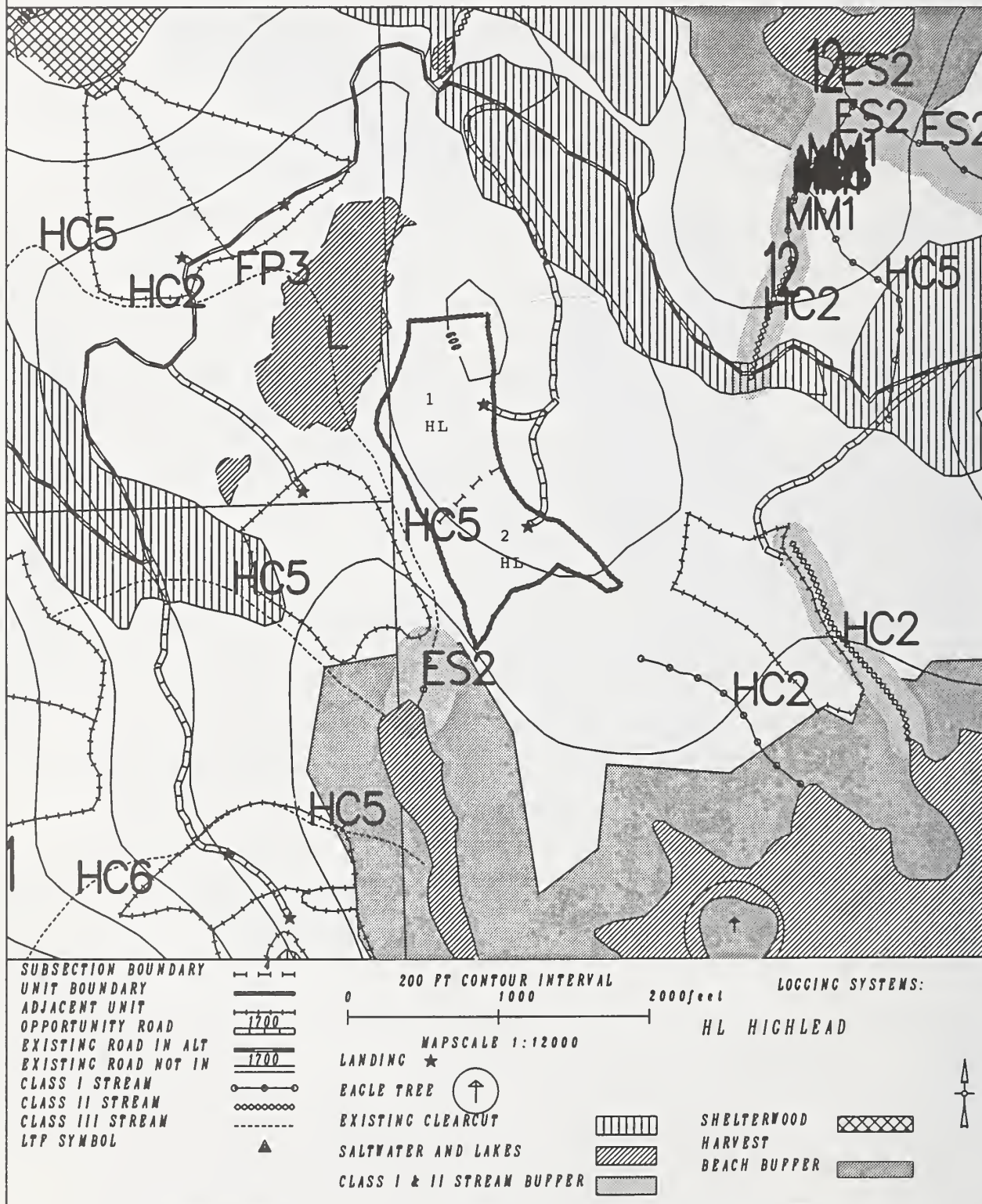
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7006

PLANNED HARVEST UNIT MAP

ACRES: 32 VOLUME: 1003 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWN
 PHOTO NUM.: 1179-154 LANDNET INFO TOWNSHIP 70S RANGE 90R

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 09, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7007</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u> <u>5</u>	VQO <u>PR</u>
Planned acres <u>16</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>502</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CCD</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-154</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 16 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 16 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 16 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 16 Mixed 0 Percent Seen 25 Percent Unseen 75 Aspect South

SOILS

This unit has 16 acres that may require partial or full suspension (BMP 13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 13 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

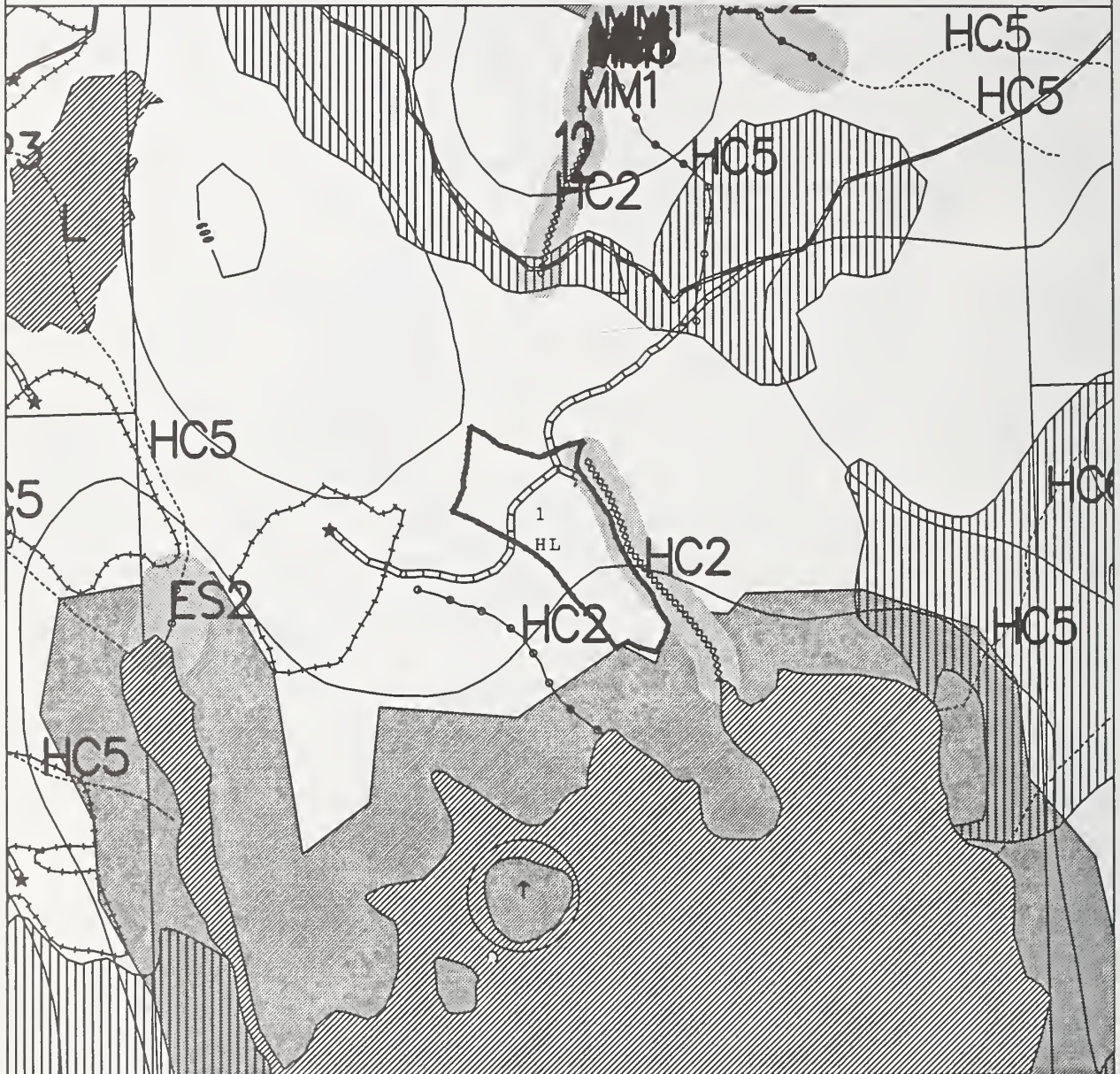
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7007

PLANNED HARVEST UNIT MAP

ACRES: 16 VOLUME: 502 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWN
 PHOTO NUM.: 1179-154 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BACLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGHLEAD



SHELTERWOOD

HARVEST

BEACH BUFFER



July 09, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7008</u>	No. Settings <u>3</u>	Alternatives considered <u>2 4 5</u>	VQO <u>M</u>
Planned acres <u>14</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>438</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CMC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-193</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 14 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 14 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 11 acres Medium 3 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 14 Mixed 0 Percent Seen 29 Percent Unseen 71 Aspect South

SOILS

This unit has 14 acres that may require partial or full suspension (BMP 13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 11 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Oversteepened slopes may require full bench construction on 0.20 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

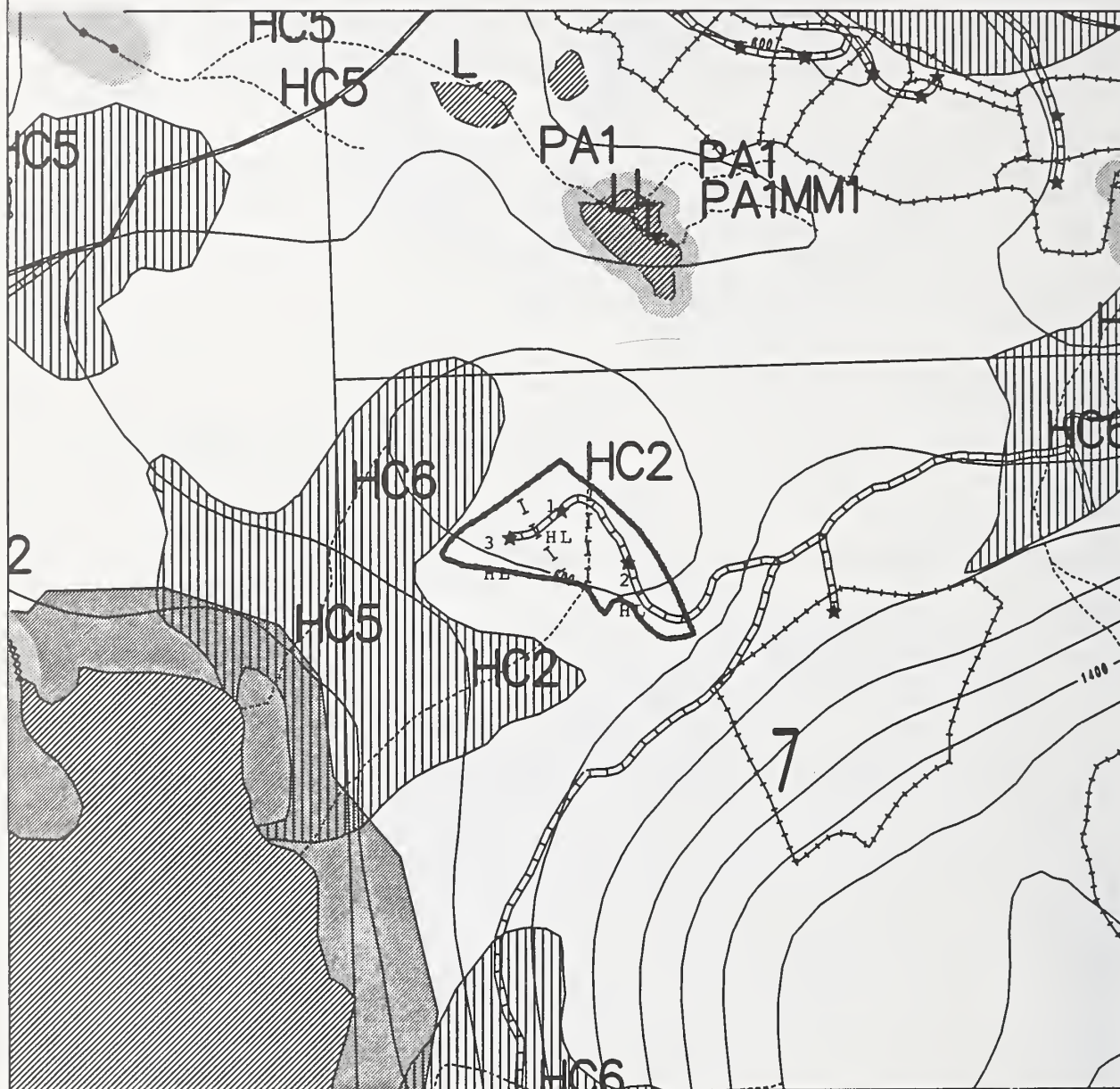
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7008

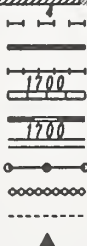
PLANNED HARVEST UNIT MAP

ACRES: 14 VOLUME: 438 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWN
 PHOTO NUM.: 1179-193 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGH LEAD

SHELTERWOOD

HARVEST

BEACH BUFFER



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7009</u>	No. Settings <u>3</u>	Alternatives considered <u>2</u> <u>4</u> <u>6</u>	VQO <u>PR</u>
Planned acres <u>45</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1412</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CCS</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-156</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 45 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 45 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 45 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 0 Mixed 44 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 44 acres that may require partial or full suspension (BMP 13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 24 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Maintain adequate distribution of snags by leaving 0.1 acre-sized patches of green trees within the unit for every 10 acres harvested. Snag patches must be compatible with logging system and safe working conditions.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7009

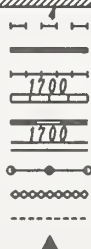
PLANNED HARVEST UNIT MAP

ACRBS: 45 VOLUME: 1412 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-156 LANDNET INFO TOWNSHIP 70S RANGE 90P

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BACLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HE HELICOPTER

SHELTERWOOD

HARVEST

BEACH BUFFER



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7010</u>	No. Settings <u>4</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>27</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>674</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WDC</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-134</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 27 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 27 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 1 acres Medium 12 acres High 14 acres Very High 0 acres
Cedar 0 Hemlock 25 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has 27 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit contains 7 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7010

PLANNED HARVEST UNIT MAP

ACRES: 27VOLUME: 674

MBP

QUAD(s): KTND5QUARTER QUAD(s): SWSPHOTO NUM.: 1179-134

LANDNET INFO

TOWNSHIP

70SRANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
BAGLE TREE (upward arrow in circle)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE

HL HIGHLEAD

SHBLTERWOOD

HARVEST

BEACH BUFFER



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7011</u>	No. Settings <u>2</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>36</u>	Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>	
Estimated volume (mbf) <u>906</u>	Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WDC</u>	
Logging methods <u>HL</u> <u>RS</u>	WAA <u>510</u>	Forest type <u>Hemlock</u>	
Silvicultural system <u>Clearcut</u>	1981 Photo <u>1179-133</u>		

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 35 acres VC5 1 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 27 acres 800-1200 ft. 9 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 1 acres Medium 21 acres High 14 acres Very High 0 acres
Cedar 0 Hemlock 35 Mixed 0 Percent Seen 86 Percent Unseen 14 Aspect East

SOILS

This unit has 36 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 12 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the _____ viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

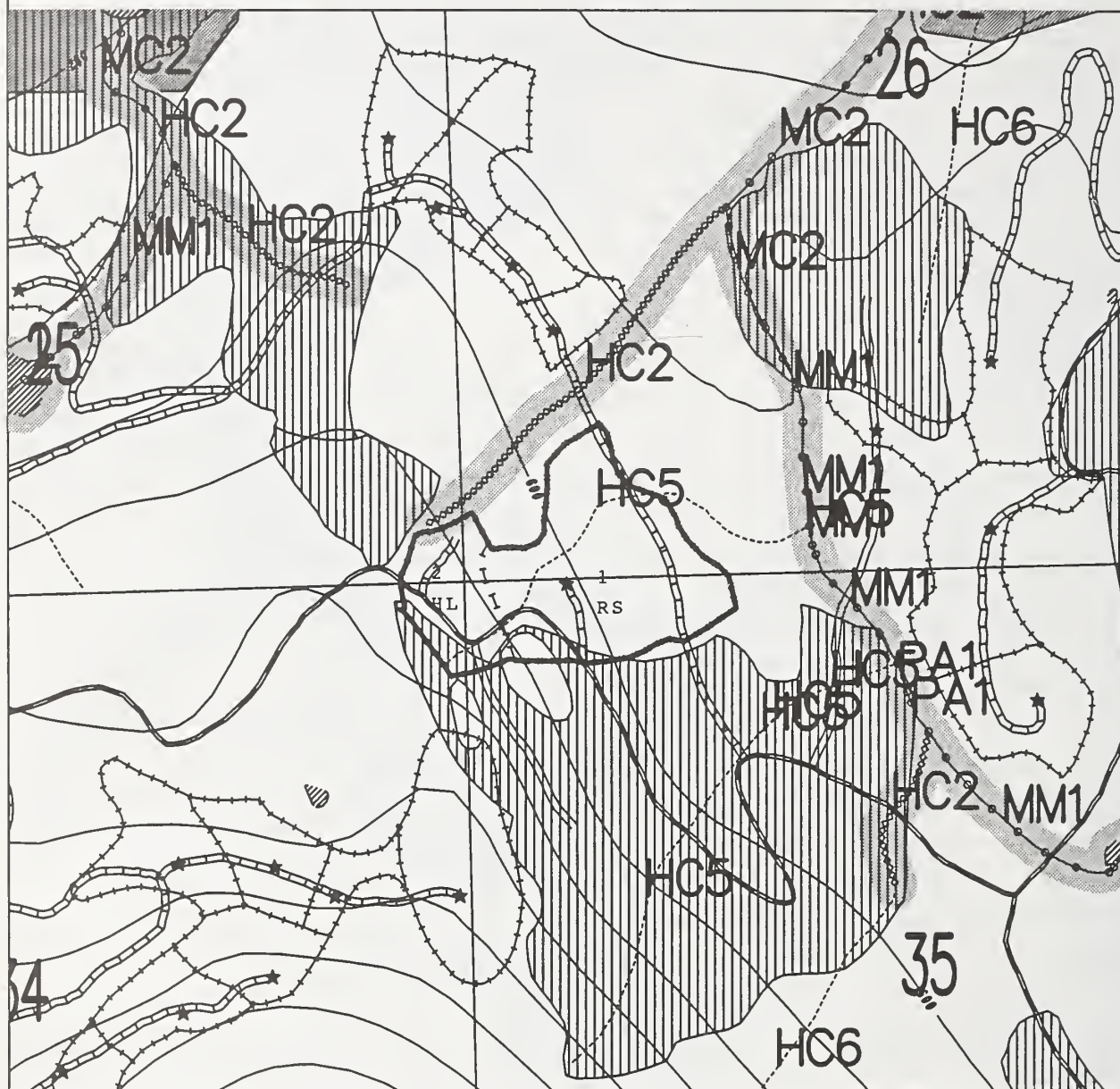
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7011

PLANNED HARVEST UNIT MAP

ACRES: 36 VOLUME: 906 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-133 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 EAGLE TREE ↑
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

RS RUNNING SKYLINE
 HL HIGHLEAD

SHELTERWOOD
 HARVEST
 BEACH BUFFER

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7012</u>	No. Settings <u>4</u>	Alternatives considered <u>2</u> <u>5</u>	VQO <u>MM</u>
Planned acres <u>44</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1158</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CCD</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-159</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 35 acres VC5 9 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 44 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 5 acres Medium 22 acres High 17 acres Very High 0 acres
Cedar 0 Hemlock 43 Mixed 1 Percent Seen 0 Percent Unseen 100 Aspect South

SOILS

This unit has 44 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 24 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 1 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Replanting of yellow and red cedar should be considered.
Recommendation is to perform a prescribed burn after harvest is completed to promote regeneration.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nestsite is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the _____ viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7012

PLANNED HARVEST UNIT MAP

ACRES: 44VOLUME: 1158

MBP

QUAD(s): KTND5QUARTER QUAD(s): SWS

PHOTO NUM.:

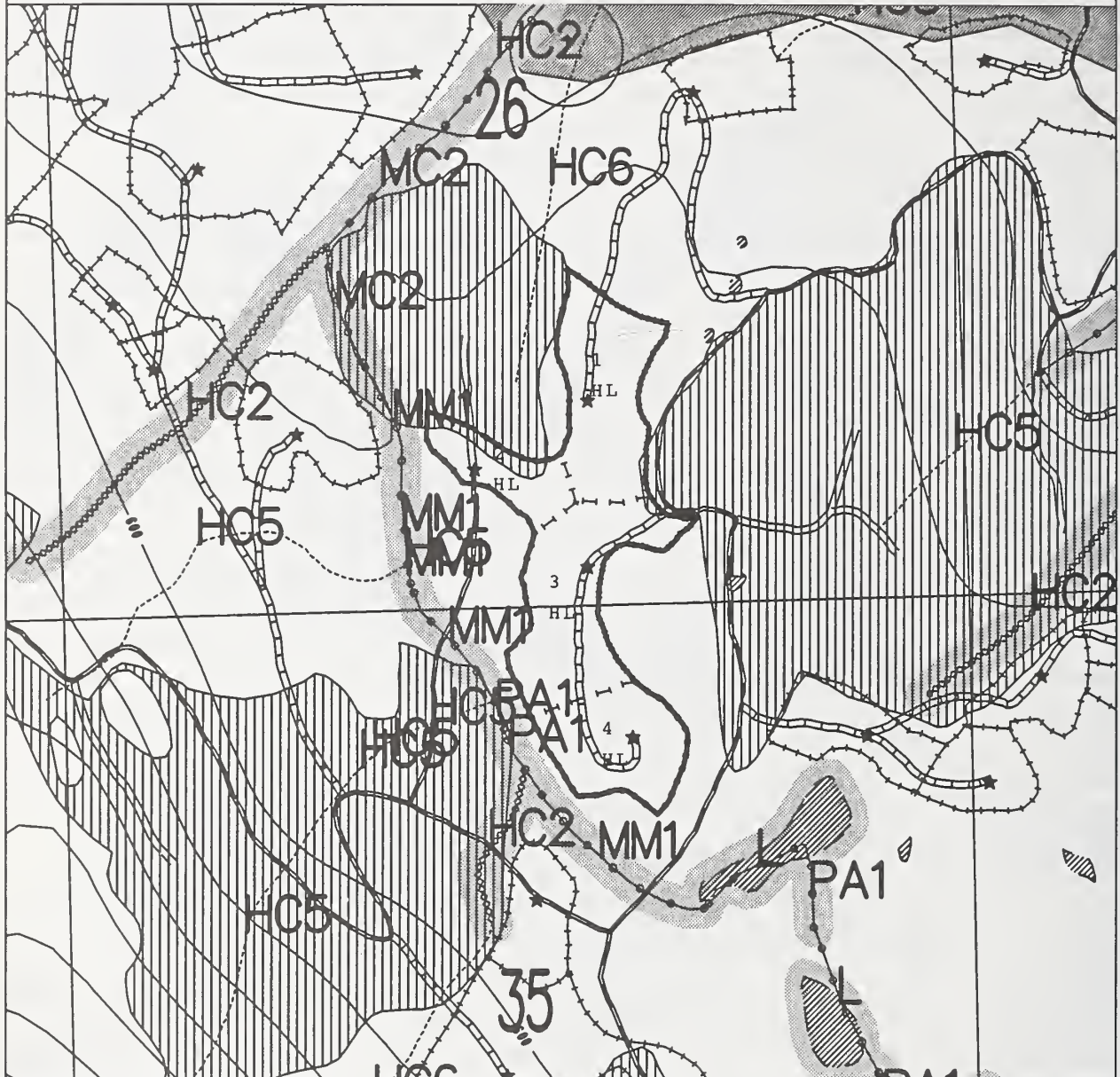
1179-159

LANDNET INFO

TOWNSHIP

70SRANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGHLEAD



SHELTERWOOD
HARVEST
BEACH BUFFER



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7013</u>	No. Settings <u>4</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>45</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1266</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CMC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-159</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 23 acres VC5 22 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 45 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 45 acres Medium 0 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 42 Mixed 0 Percent Seen 44 Percent Unseen 56 Aspect East

SOILS

This unit has 45 acres that may require partial or full suspension (BMP 13.9)
This unit contains 43 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nest site is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the _____ viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

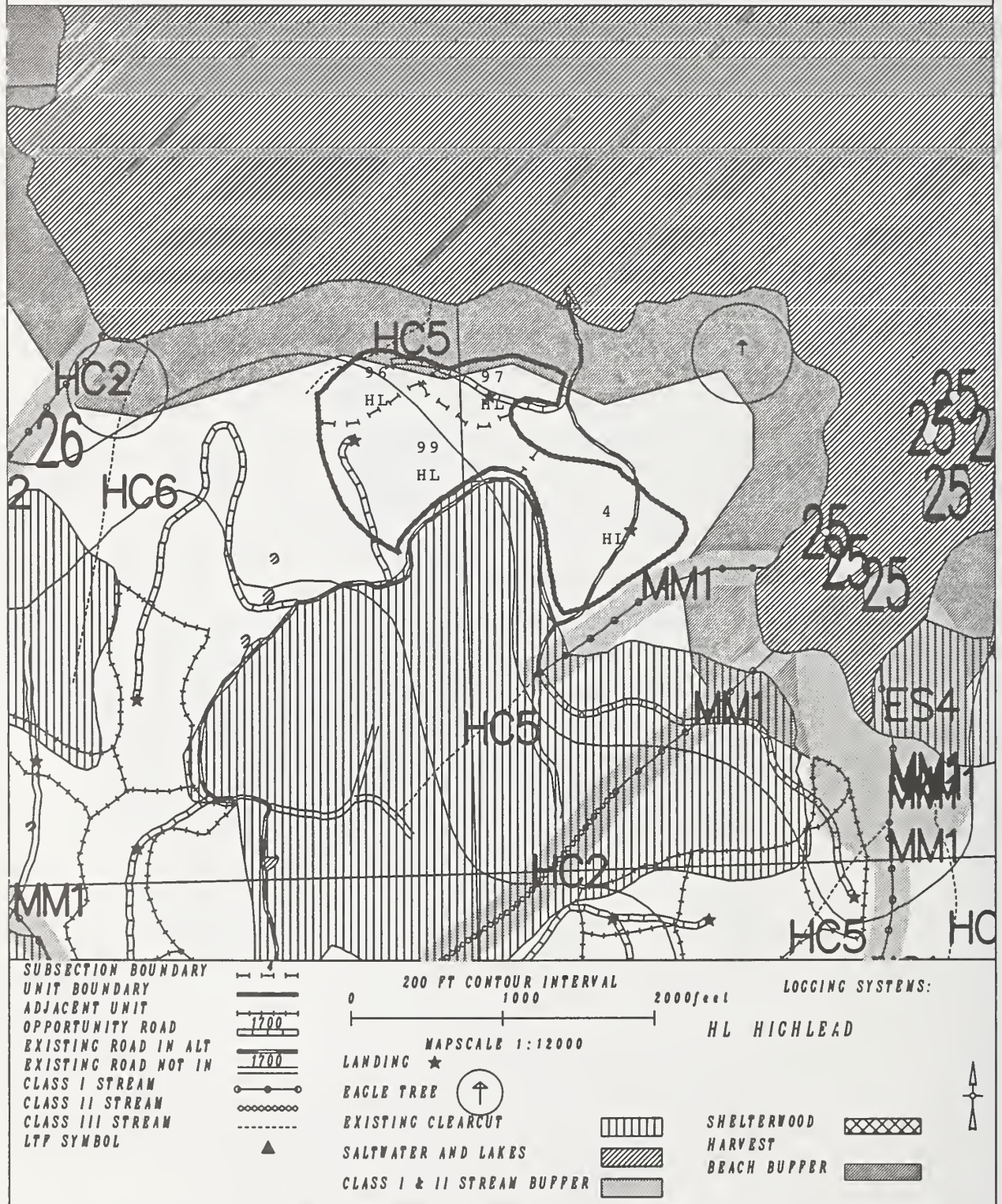
VCU: 7370

UNIT NUMBER: 7013

PLANNED HARVEST UNIT MAP

ACRES: 45 VOLUME: 1266 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-159 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7014</u>	No. Settings <u>5</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>37</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1161</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CMC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-160</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 37 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 37 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 3 acres Medium 34 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 0 Mixed 37 Percent Seen 76 Percent Unseen 24 Aspect East

SOILS

This unit has 15 acres that may require partial or full suspension (BMP 13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 11 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 2 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are 2 streams which have fish passage requirements, of these passes 2 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nest site is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

ACRES: 37 VOLUME: 1161 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-160 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.

LEGEND

SUBSECTION BOUNDARY	200 FT CONTOUR INTERVAL	LOGGING SYSTEMS:
UNIT BOUNDARY	0 1000 2000 feet	HL HIGH LEAD
ADJACENT UNIT	MAP SCALE 1:12000	
OPPORTUNITY ROAD	LANDING ★	
EXISTING ROAD IN ALT	EAGLE TREE (↑)	
EXISTING ROAD NOT IN	EXISTING CLEARCUT	
CLASS I STREAM	SALTWATER AND LAKES	
CLASS II STREAM	CLASS I & II STREAM BUFFER	
CLASS III STREAM		
LTP SYMBOL ▲		

SHEDDING SYSTEMS:

SHELTERWOOD	
HARVEST	
BEACH BUFFER	

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7016</u> No. Settings <u>2</u>	Alternatives considered <u>2 3 5</u>	VQO <u>PR</u>
Planned acres <u>18</u>	Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>566</u>	Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WHM</u>
Logging methods <u>HL RS</u>	WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>	1981 Photo <u>1179-189</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 18 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 18 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 4 acres Medium 3 acres High 11 acres Very High 0 acres
Cedar 0 Hemlock 15 Mixed 3 Percent Seen 83 Percent Unseen 17 Aspect West

SOILS

This unit has 18 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 3 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

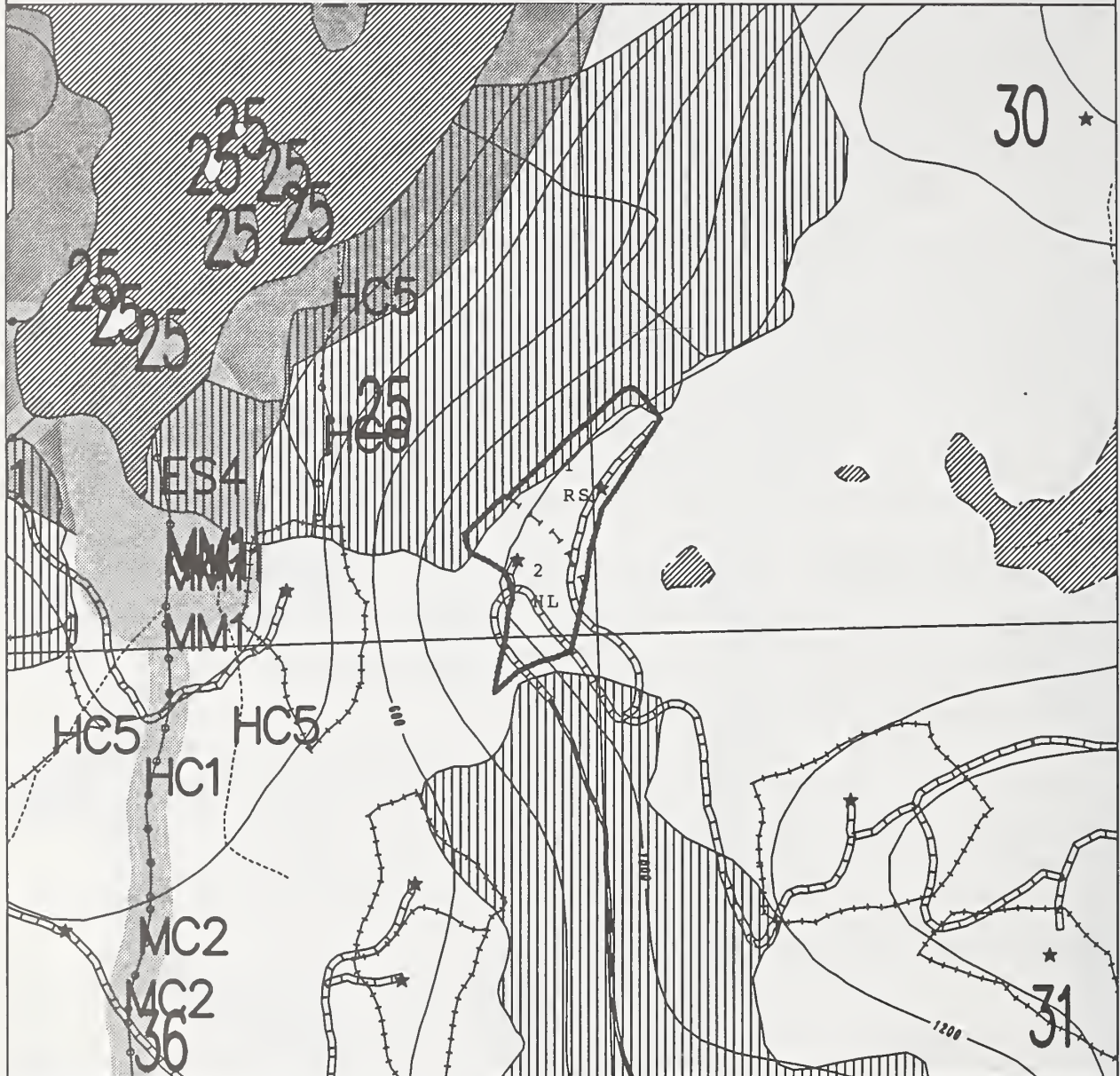
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7016

PLANNED HARVEST UNIT MAP

ACRES: 18 VOLUME: 566 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-189 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 BACLE TREE (⊕)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

RS RUNNING SKYLINE
 HL HIGHLEAD

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7017</u>	No. Settings <u>5</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>70</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2642</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CCD</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-188</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 24 acres VC6 46 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 1 acres 800-1200 ft. 23 acres 1200-1500 ft. 36 acres over 1500 ft. 10 acres
Mass movement index: Low 4 acres Medium 4 acres High 62 acres Very High 0 acres
Cedar 0 Hemlock 65 Mixed 1 Percent Seen 4 Percent Unseen 96 Aspect West

SOILS

This unit has 69 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit contains 27 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 29 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Replanting of yellow cedar should be considered.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).
Oversteepened slopes may require full bench construction on 0.42 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the _____ viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

ACRES: 70 VOLUME: 2642 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
PHOTO NUM.: 1179-188 LANDNET INFO TOWNSHIP 70S RANGE 91E

[illegible]

EXISTING CLEARCUT
SALTWATER AND LAKES
CLASS I & II STREAM BUFFER

SHELTERWOOD 
HARVEST
BEACH BUPPER 

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7018</u>	No. Settings <u>0</u>	Alternatives considered <u>5</u>	VQO <u>M</u>
Planned acres <u>21</u>		Quad <u>KTND5NES</u>	Windthrow risk <u> </u>
Estimated volume (mbf) <u>807</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u> </u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-108</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 8 acres VC6 13 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 2 acres Medium 0 acres High 19 acres Very High 0 acres
Cedar 0 Hemlock 0 Mixed 0 Percent Seen Percent Unseen Aspect North

SOILS

This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit contains 7 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

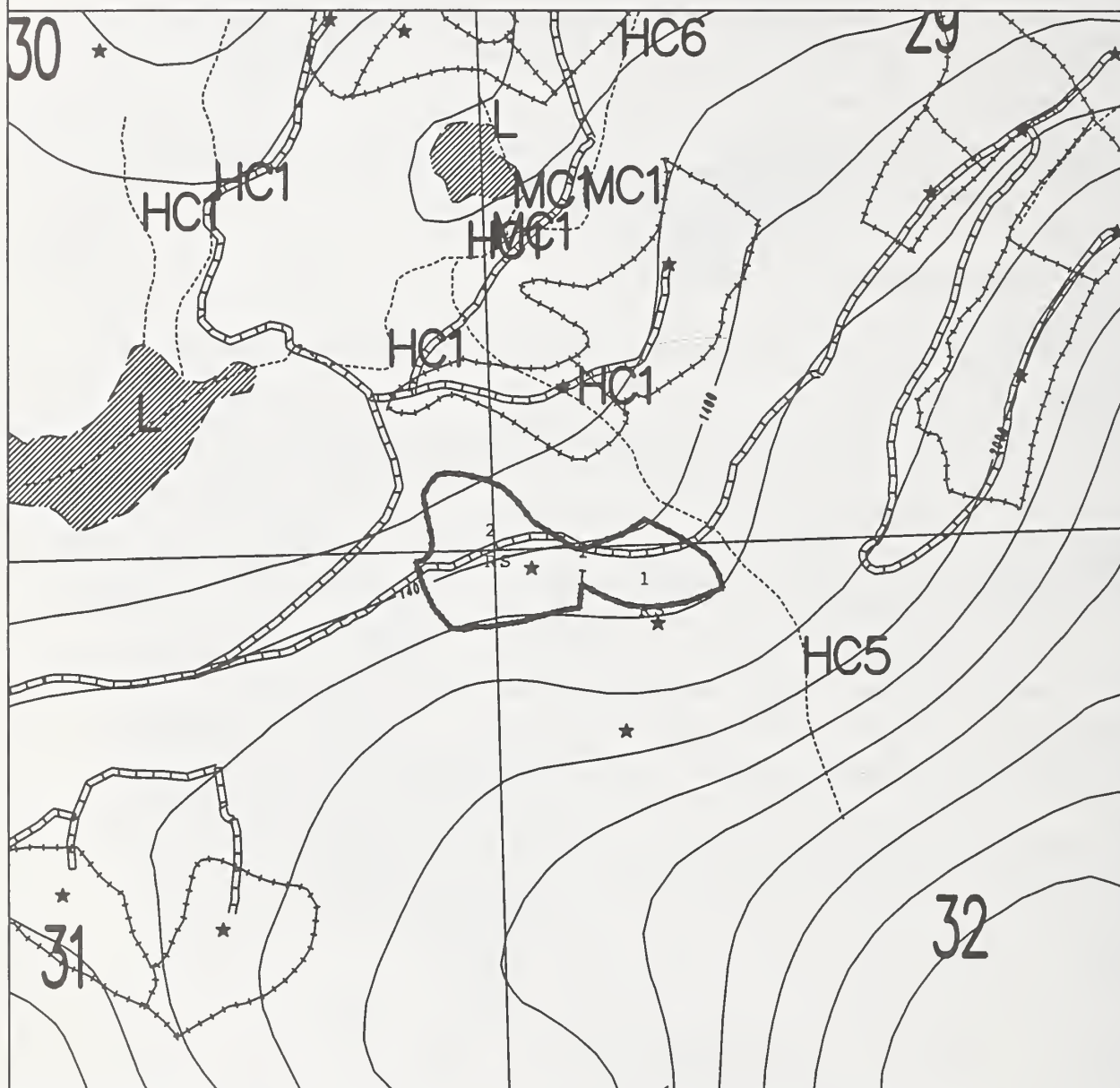
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7018

PLANNED HARVEST UNIT MAP

ACRES: 21 VOLUME: 807 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1279-108 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design at the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE



SHELTERWOOD

HARVEST

BEACH BUFFER



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7019</u>	No. Settings <u>2</u>	Alternatives considered <u>2</u> <u>5</u>	VQO <u>MM</u>
Planned acres <u>30</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>813</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CCD</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-109</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 20 acres VC5 10 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 14 acres over 1500 ft. 7 acres
Mass movement index: Low 0 acres Medium 17 acres High 13 acres Very High 0 acres
Cedar 0 Hemlock 28 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 29 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction on 0.13 miles of road
and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

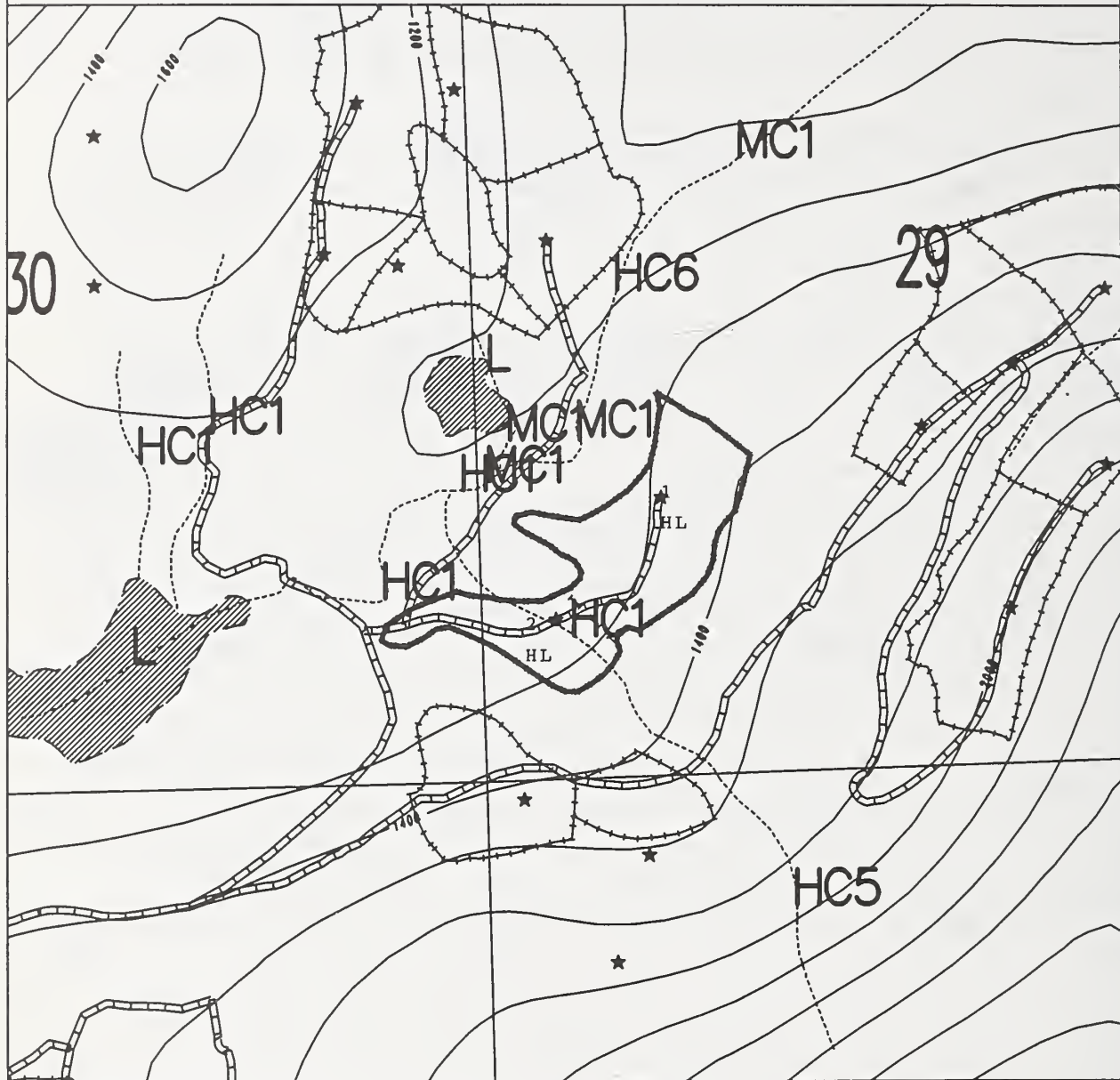
There are no geological mitigation measures anticipated for this unit.

VCU: 7370 UNIT NUMBER: 7019

PLANNED HARVEST UNIT MAP

ACRES: 30 VOLUME: 813 MBP QUAD(s): KTND5 QUARTER QUAD(s): SES/SWS
 PHOTO NUM.: 1279-109 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 PT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BAGLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGHLEAD



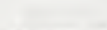
SHELTERWOOD



HARVEST



BEACH BUFFER



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7020</u>	No. Settings <u>2</u>	Alternatives considered <u>6</u>	VQO <u>PR</u>
Planned acres <u>18</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>462</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WDC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-189</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 16 acres VC5 2 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 2 acres 1200-1500 ft. 12 acres over 1500 ft. 4 acres
Mass movement index: Low 2 acres Medium 0 acres High 16 acres Very High 0 acres
Cedar 0 Hemlock 15 Mixed 3 Percent Seen 39 Percent Unseen 61 Aspect West

SOILS

This unit has 18 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit contains 8 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

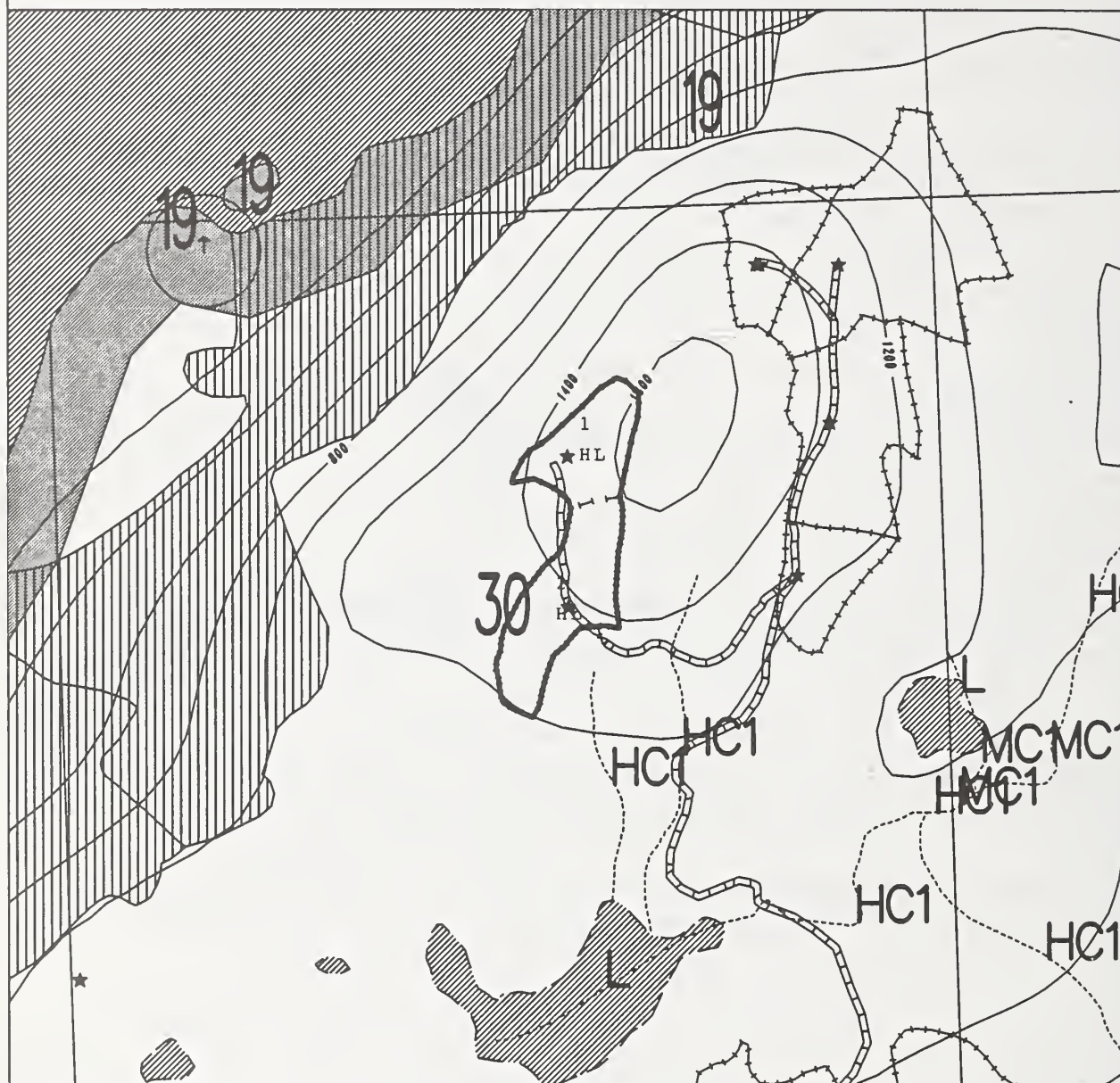
There are no geological mitigation measures anticipated for this unit.

VCU: 7370 UNIT NUMBER: 7020

PLANNED HARVEST UNIT MAP

ACRES: 18 VOLUME: 462 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-189 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

BAGLE TREE (upward arrow symbol)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGH LEAD

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7021</u>	No. Settings <u>5</u>	Alternatives considered <u>2</u> <u>5</u>	VQO <u>MM</u>
Planned acres <u>59</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1845</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CCD</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-109</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 1 acres VC5 58 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 39 acres 1200-1500 ft. 20 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 59 acres Very High 0 acres
Cedar 0 Hemlock 58 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 59 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 28 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 1 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction on 0.04 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

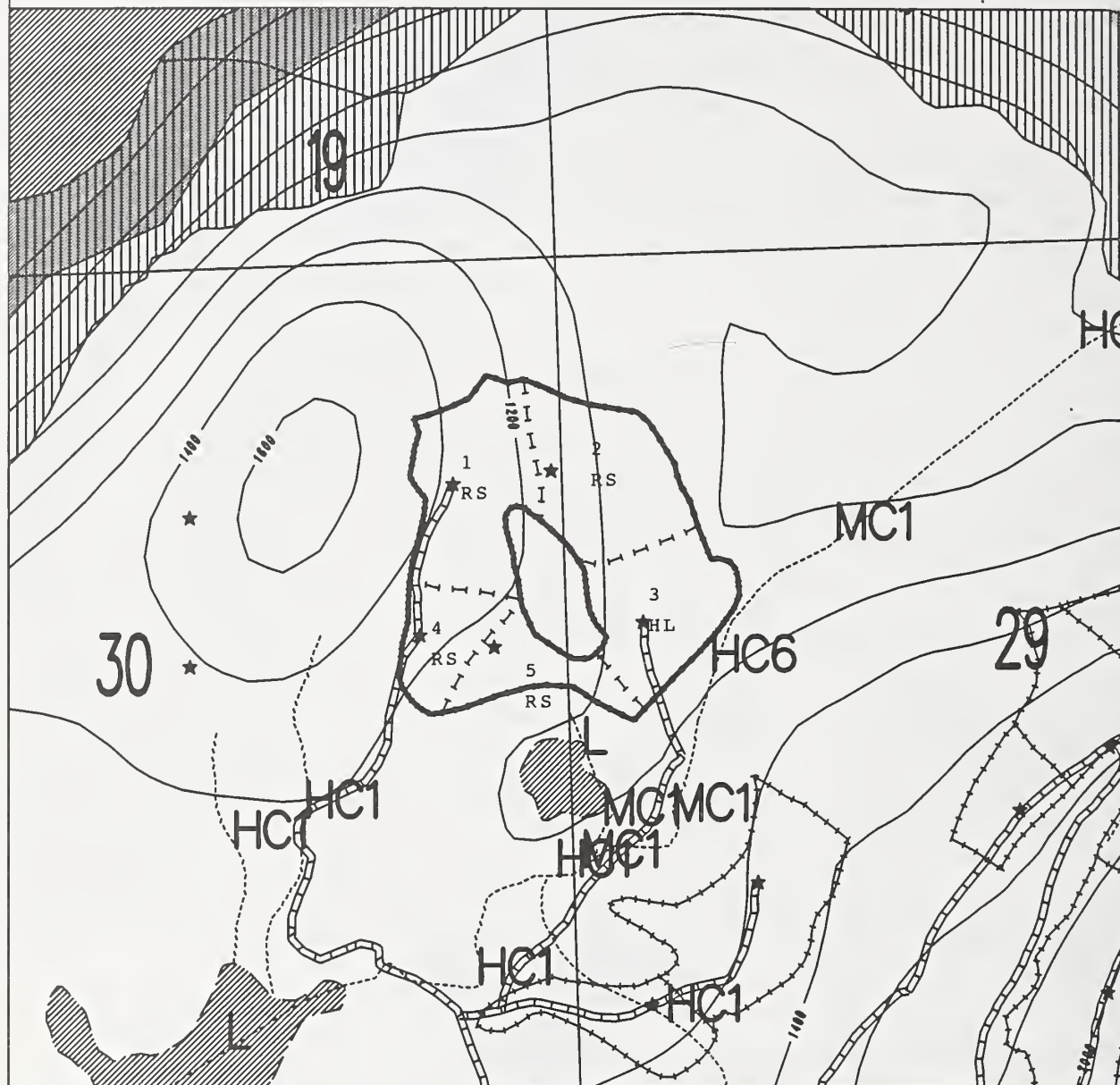
There are no geological mitigation measures anticipated for this unit.

VCU: 7370 UNIT NUMBER: 7021

PLANNED HARVEST UNIT MAP

ACRBS: 59 VOLUME: 1845 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1279-109 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following
 intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

BACLE TREE (symbol)

EXISTING CLEARCUT (symbol)

SALTWATER AND LAKES (symbol)

CLASS I & II STREAM BUPPER (symbol)

LOGGING SYSTEMS:

RS RUNNING SKYLINE

HL HIGHLEAD

SHELTERWOOD (symbol)

HARVEST (symbol)

BEACH BUPPER (symbol)

July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7022</u>	No. Settings <u>6</u>	Alternatives considered <u>2</u>	VQO <u>PR</u>
Planned acres <u>32</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>799</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CCS</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-110</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 32 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 19 acres 800-1200 ft. 13 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 24 acres High 8 acres Very High 0 acres
Cedar 0 Hemlock 25 Mixed 7 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has 32 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 14 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 5 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.

There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

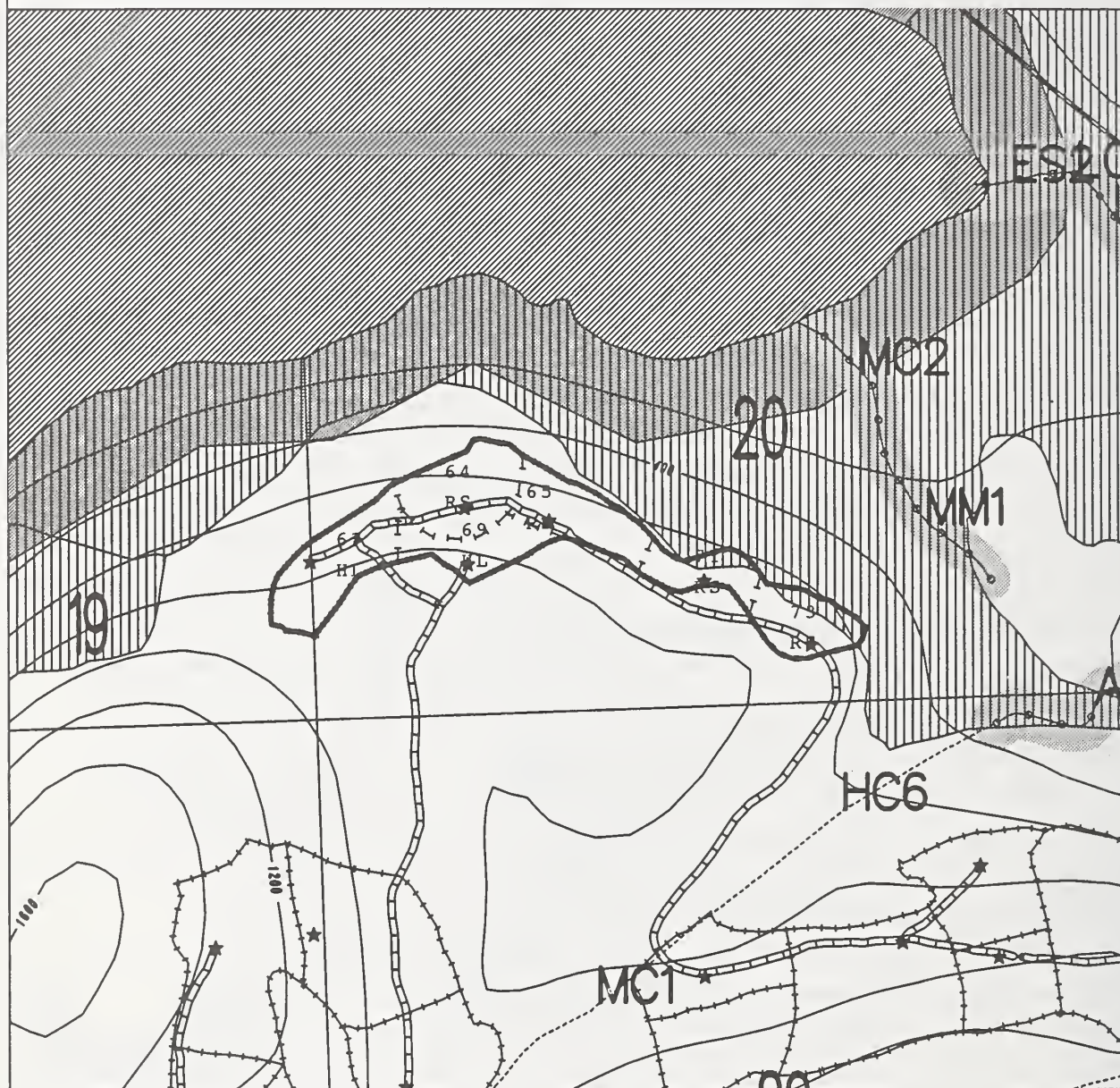
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7022

PLANNED HARVEST UNIT MAP

ACRES: 32 VOLUME: 799 MBP QUAD(s): KTND5 QUARTER QUAD(s): SES/SWS
 PHOTO NUM.: 1279-110 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE

HL HIGHLEAD

SHELTERWOOD

HARVEST

BEACH BUFFER



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7023</u>	No. Settings <u>6</u>	Alternatives considered <u>2</u>	VQO <u>M</u>
Planned acres <u>74</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2323</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CCS</u>
Logging methods <u>HL SL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-110</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 74 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 4 acres 800-1200 ft. 64 acres 1200-1500 ft. 6 acres over 1500 ft. 0 acres
Mass movement index: Low 7 acres Medium 1 acres High 66 acres Very High 0 acres
Cedar 0 Hemlock 73 Mixed 1 Percent Seen 35 Percent Unseen 65 Aspect North

SOILS

This unit has 74 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 6 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 60 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

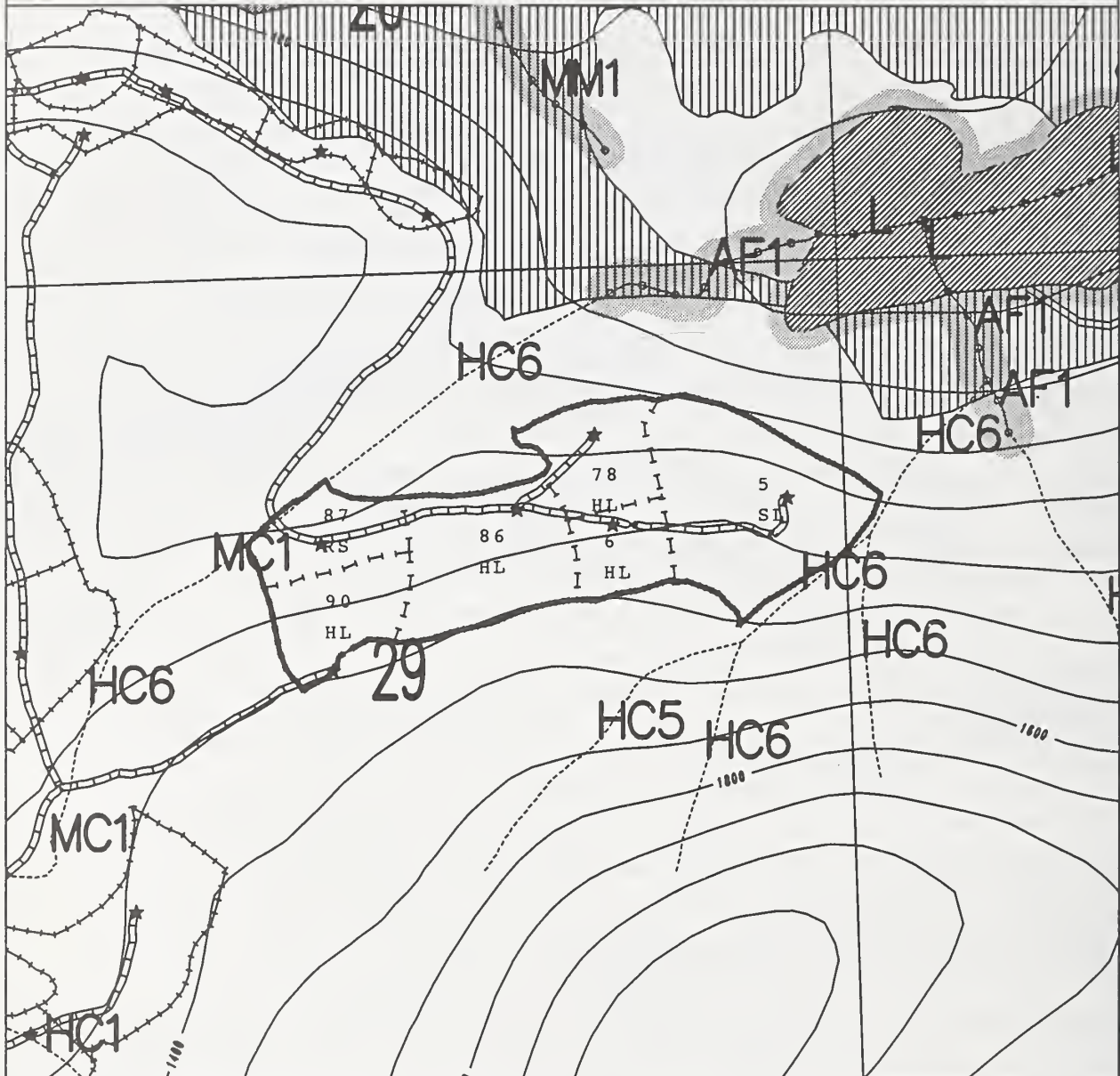
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7023

PLANNED HARVEST UNIT MAP

ACRES: 74 VOLUME: 2323 MBP QUAD(s): KTND5 QUARTER QUAD(s): SES
 PHOTO NUM.: 1279-110 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BACLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUPPER



LOGGING SYSTEMS:

HL HIGHLEAD

RS RUNNING SKYLINE

SL SLACKLINE

SHELTERWOOD

HARVEST

BEACH BUPPER



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7024</u>	No. Settings <u>3</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>26</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>815</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WHS</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-34</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 26 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 1 acres 800-1200 ft. 12 acres 1200-1500 ft. 13 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 26 acres Very High 0 acres
Cedar 0 Hemlock 25 Mixed 0 Percent Seen 8 Percent Unseen 92 Aspect North

SOILS

This unit has 25 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 24 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 4 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the _____ viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

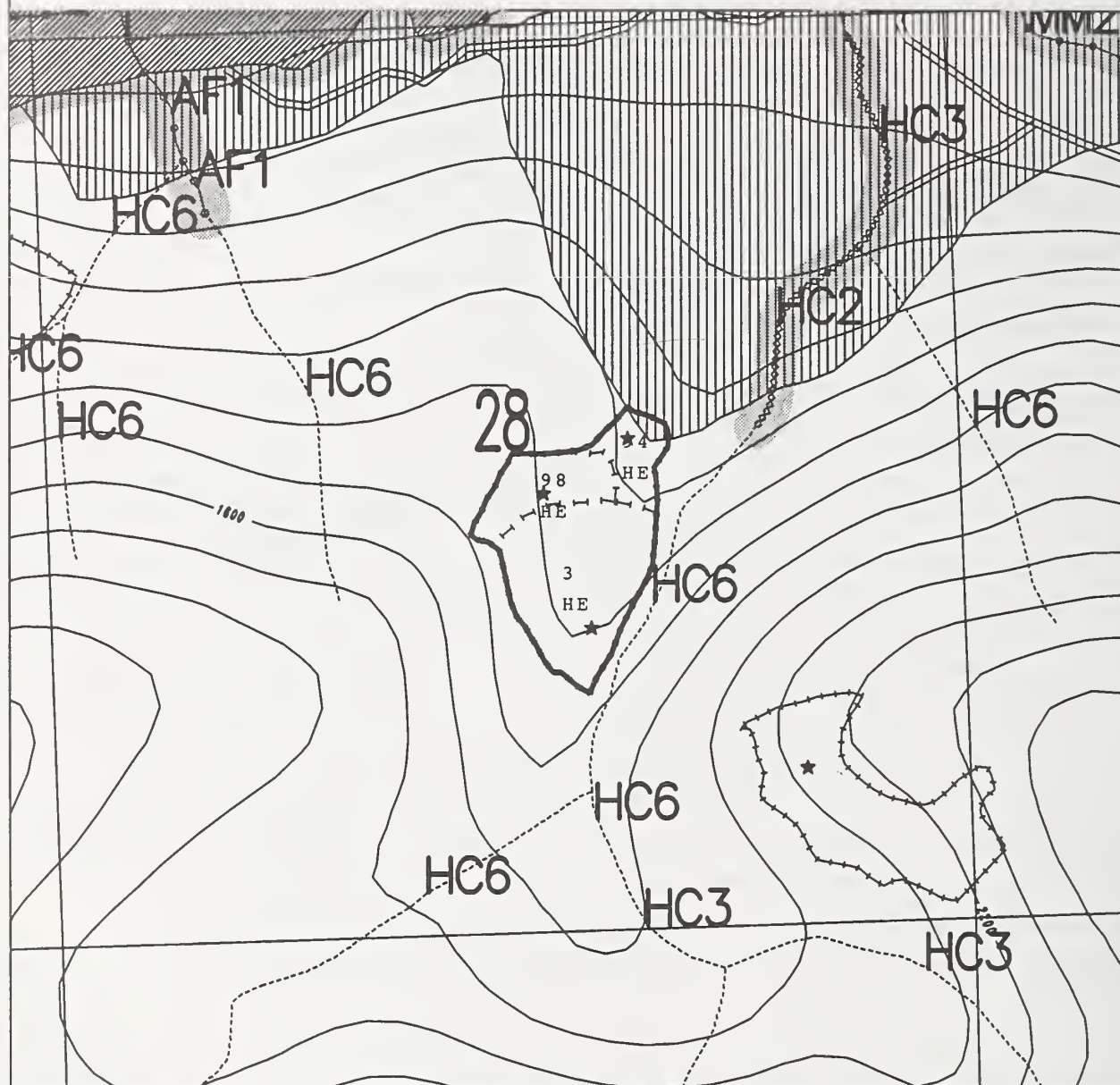
VCU: 7370

UNIT NUMBER: 7024

PLANNED HARVEST UNIT MAP

ACRES: 26 VOLUME: 815 MBP QUAD(s): KTND5 QUARTER QUAD(s): SES
 PHOTO NUM.: 1279-34 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following
 intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (upward arrow in circle)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HE HELICOPTER



SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7025</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u> <u>5</u>	VQO <u>MM</u>
Planned acres <u>20</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>532</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>MHB</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-34</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 15 acres VC5 5 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 20 acres
Mass movement index: Low 0 acres Medium 0 acres High 0 acres Very High 20 acres
Cedar 0 Hemlock 15 Mixed 4 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 20 acres that may require partial or full suspension (BMP 13.9)
This unit has very high mass movement index soils.
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 12 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 20 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

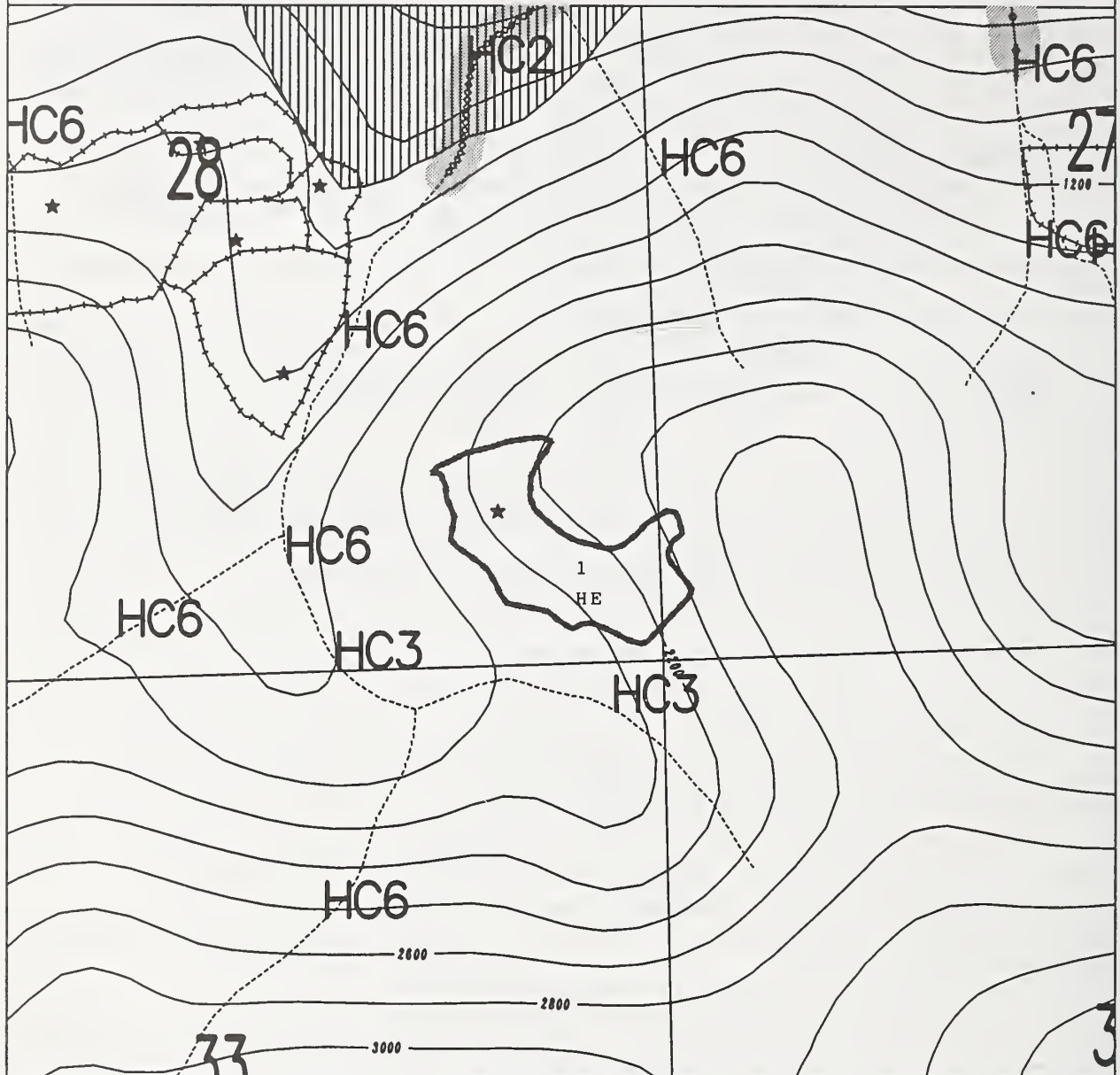
VCU: 7370

UNIT NUMBER: 7025

PLANNED HARVEST UNIT MAP

ACRES: 20 VOLUME: 532 MBF QUAD(s): KTND5 QUARTER QUAD(s): SES
 PHOTO NUM.: 1279-34 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 EAGLE TREE (up arrow)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HE HELICOPTER

SHELTERWOOD
 HARVEST
 BEACH BUFFER



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7026</u>	No. Settings <u>3</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>69</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2165</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WHS</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-57</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 69 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 4 acres 800-1200 ft. 42 acres 1200-1500 ft. 21 acres over 1500 ft. 2 acres
Mass movement index: Low 0 acres Medium 0 acres High 69 acres Very High 0 acres
Cedar 0 Hemlock 69 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 69 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas. (BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 67 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 2 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

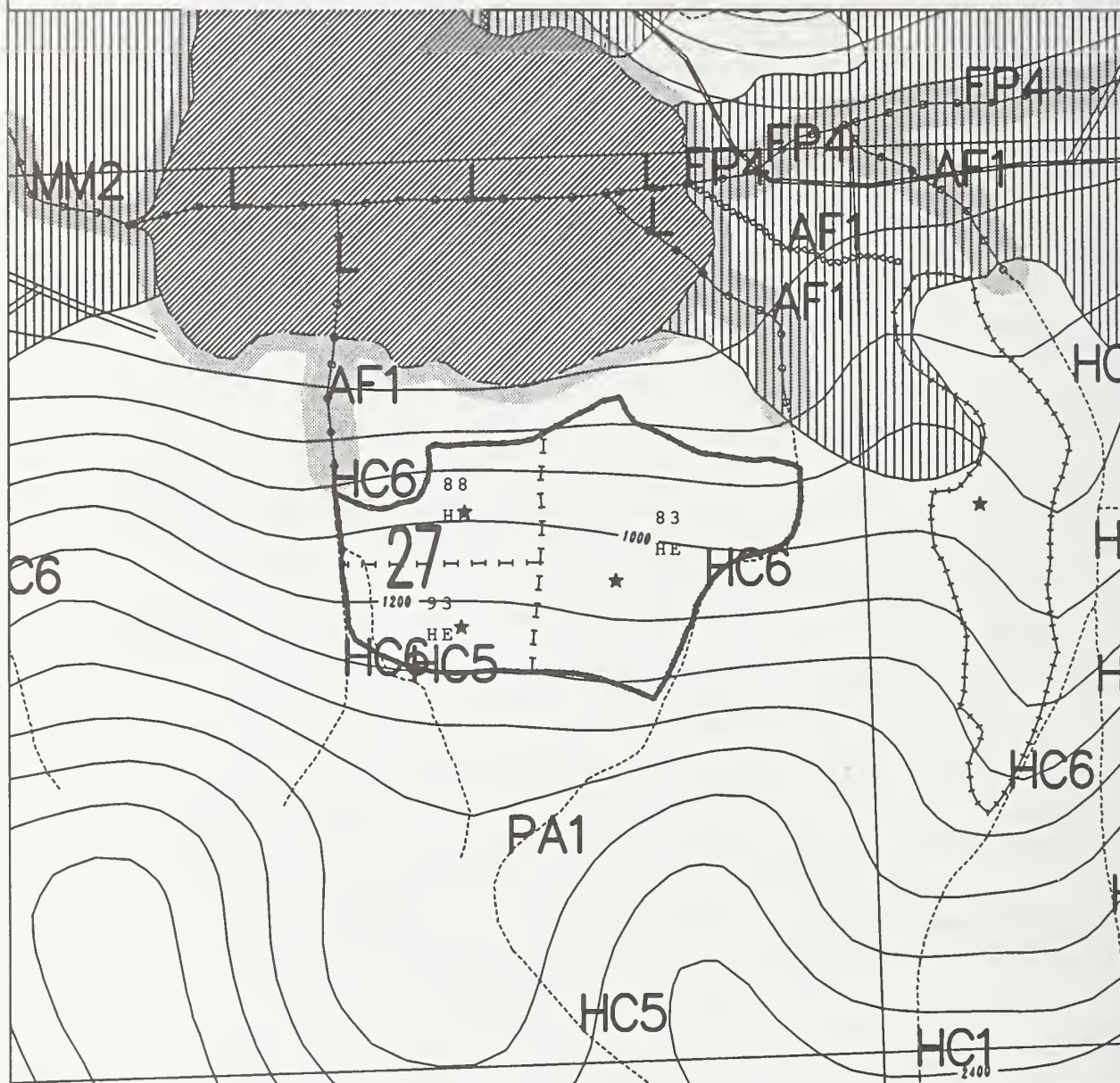
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7026

PLANNED HARVEST UNIT MAP

ACRES: 69 VOLUME: 2165 MBP QUAD(s): KTND5 QUARTER QUAD(s): SES
 PHOTO NUM.: 1279-57 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 EAGLE TREE (circle with cross)
 EXISTING CLEARCUT (dashed line)
 SALTWATER AND LAKES (wavy line)
 CLASS I & II STREAM BUFFER (shaded area)



LOGGING SYSTEMS:
 HE HELICOPTER

SHELTERWOOD (vertical lines)
 HARVEST (diagonal lines)
 BEACH BUFFER (solid grey area)



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7027</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>35</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1098</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WHS</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-57</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 35 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 11 acres 800-1200 ft. 15 acres 1200-1500 ft. 8 acres over 1500 ft. 1 acres
Mass movement index: Low 0 acres Medium 0 acres High 35 acres Very High 0 acres
Cedar 0 Hemlock 33 Mixed 2 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 35 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 31 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

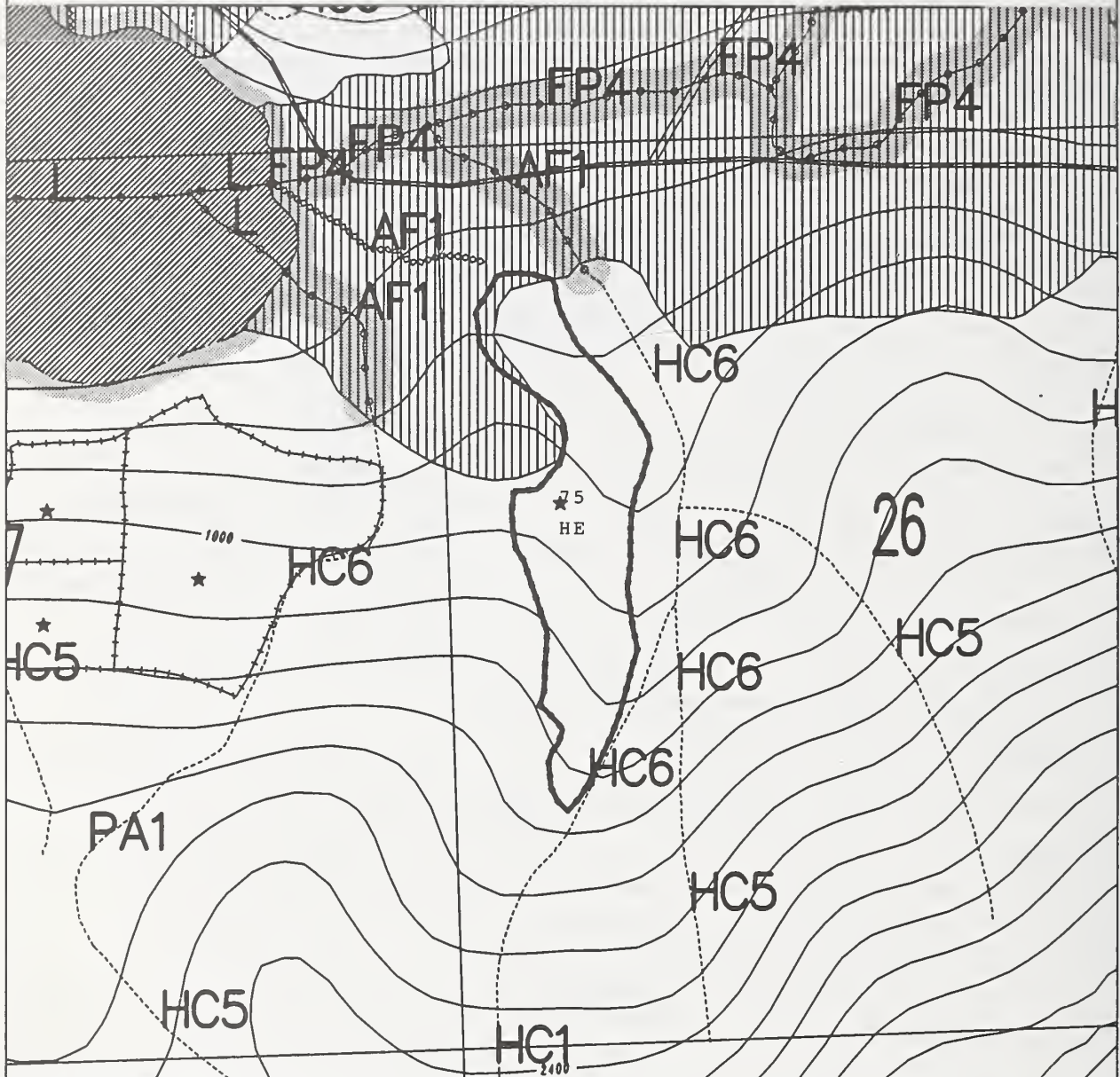
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7027

PLANNED HARVEST UNIT MAP

ACRES: 35 VOLUME: 1098 MBP QUAD(s): KTND5 QUARTER QUAD(s): SES
 PHOTO NUM.: 1279-57 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HE HELICOPTER



SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7028</u>	No. Settings <u>1</u>	Alternatives considered <u>2 4 5</u>	VQO <u>MM</u>
Planned acres <u>14</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>439</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WHS</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-84</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 14 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 5 acres 1200-1500 ft. 9 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 14 acres Very High 0 acres
Cedar 0 Hemlock 0 Mixed 14 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 13 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 13 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

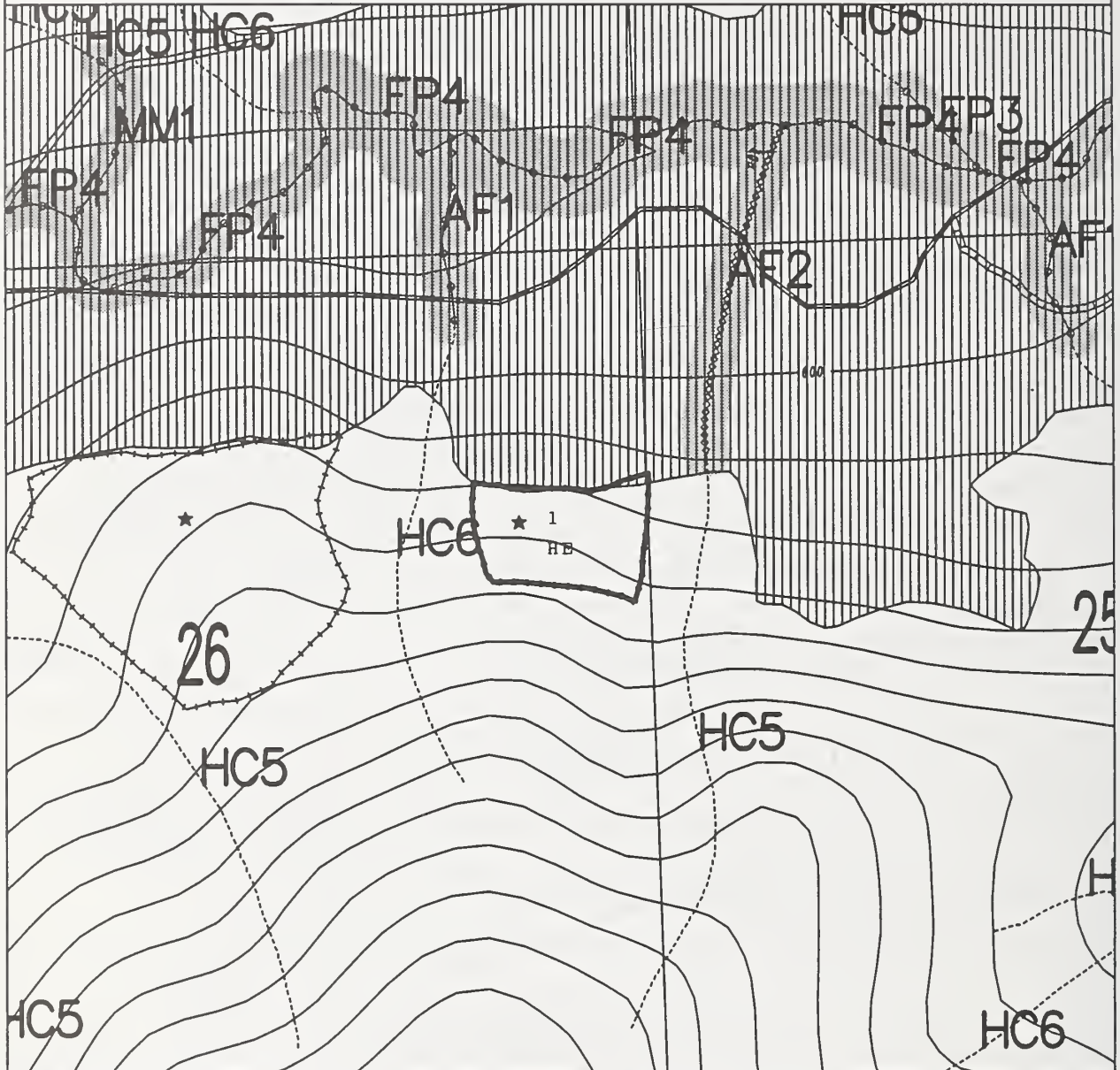
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7028

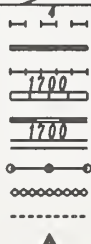
PLANNED HARVEST UNIT MAP

ACRES: 14 VOLUME: 439 MBP QUAD(s): KTND5 QUARTER QUAD(s): SES
 PHOTO NUM.: 1279-84 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

BAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HE HELICOPTER



SHELTERWOOD



HARVEST



BEACH BUFFER



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit 7029 No. Settings 2Planned acres 17Estimated volume (mbf) 490Logging methods HLSilvicultural system ClearcutAlternatives considered 2 5Quad KTND5SESMgmt Area K32 VCU 7370WAA 5101981 Photo 1279-84VQO MMWindthrow risk HPlant Series CCDForest type Mixed conifer

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 7 acres VC5 10 acres VC6 0 acres VC7 0 acresElevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 11 acres 1200-1500 ft. 6 acres over 1500 ft. 0 acresMass movement index: Low 5 acres Medium 0 acres High 12 acres Very High 0 acresCedar 0 Hemlock 6 Mixed 10 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 17 acres that may require partial or full suspension (BMP 13.9)

This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)

This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

This unit contains 12 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.

There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7029

PLANNED HARVEST UNIT MAP

ACRES: 17VOLUME: 490

MBP

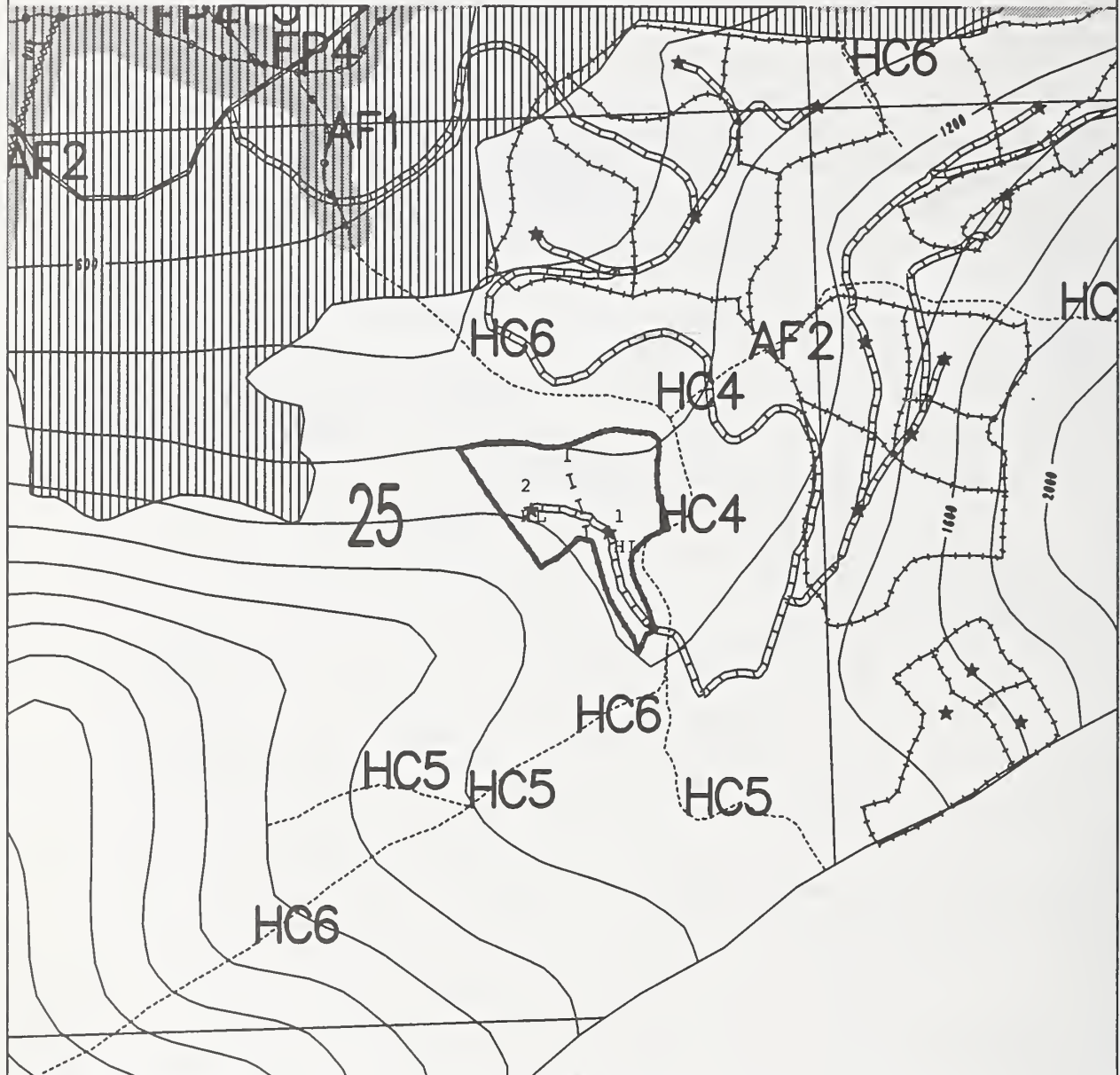
QUAD(s): KTND5QUARTER QUAD(s): SESPHOTO NUM.: 1279-84

LANDNET INFO

TOWNSHIP

70SRANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BAGLE TREE (upward arrow in circle)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGH LEAD



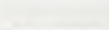
SHELTERWOOD



HARVEST



BRANCH BUFFER



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7030</u>	No. Settings <u>4</u>	Alternatives considered <u>2 4 5</u>	VQO <u>MM</u>
Planned acres <u>44</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1285</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CCD</u>
Logging methods <u>HL SL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-104</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 15 acres VC5 29 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 7 acres 1200-1500 ft. 27 acres over 1500 ft. 10 acres
Mass movement index: Low 0 acres Medium 0 acres High 44 acres Very High 0 acres
Cedar 0 Hemlock 44 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 44 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 36 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction on 0.56 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

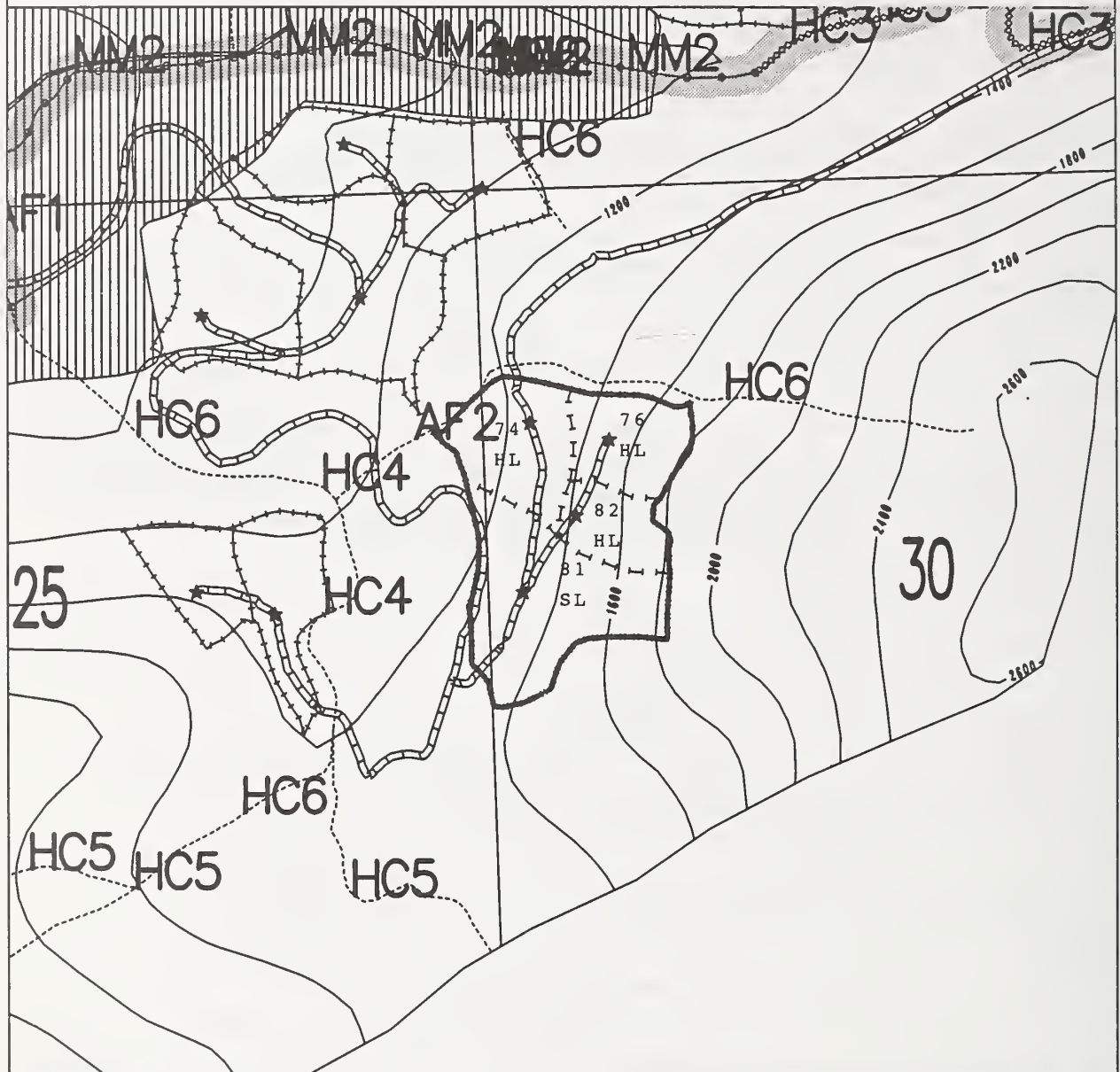
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7030

PLANNED HARVEST UNIT MAP

ACRES: 44 VOLUME: 1285 MBP QUAD(s): KTND5 QUARTER QUAD(s): SES
 PHOTO NUM.: 1279-104 LANDNET INFO TOWNSHIP 70S RANGE 92E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet
 MAPSCALE 1:12000
 LANDING ★
 BACLE TREE (circle with cross)
 EXISTING CLEARCUT (hatched box)
 SALTWATER AND LAKES (dotted box)
 CLASS I & II STREAM BUFFER (solid box)

LOGGING SYSTEMS:

HL HIGHLEAD
 SL SLACKLINE

SHELTERWOOD (hatched box)
 HARVEST (dotted box)
 BRACH BUPPER (solid box)



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7031</u>	No. Settings <u>5</u>	Alternatives considered <u>2 4 5</u>	VQO <u>MM</u>
Planned acres <u>35</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1199</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WHS</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-104</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 1 acres VC5 23 acres VC6 11 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 17 acres 1200-1500 ft. 18 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 35 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 9 Mixed 26 Percent Seen 0 Percent Unseen 100 Aspect South

SOILS

This unit has 35 acres that may require partial or full suspension (BMP 13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7032</u>	No. Settings <u>4</u>	Alternatives considered <u>2</u> <u>5</u>	VQO <u>MM</u>
Planned acres <u>58</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1526</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CCD</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-104</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 46 acres VC5 12 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 24 acres 800-1200 ft. 34 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 25 acres Medium 0 acres High 33 acres Very High 0 acres
Cedar 0 Hemlock 58 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 58 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 40 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction on 0.84 miles of road
and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 3 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

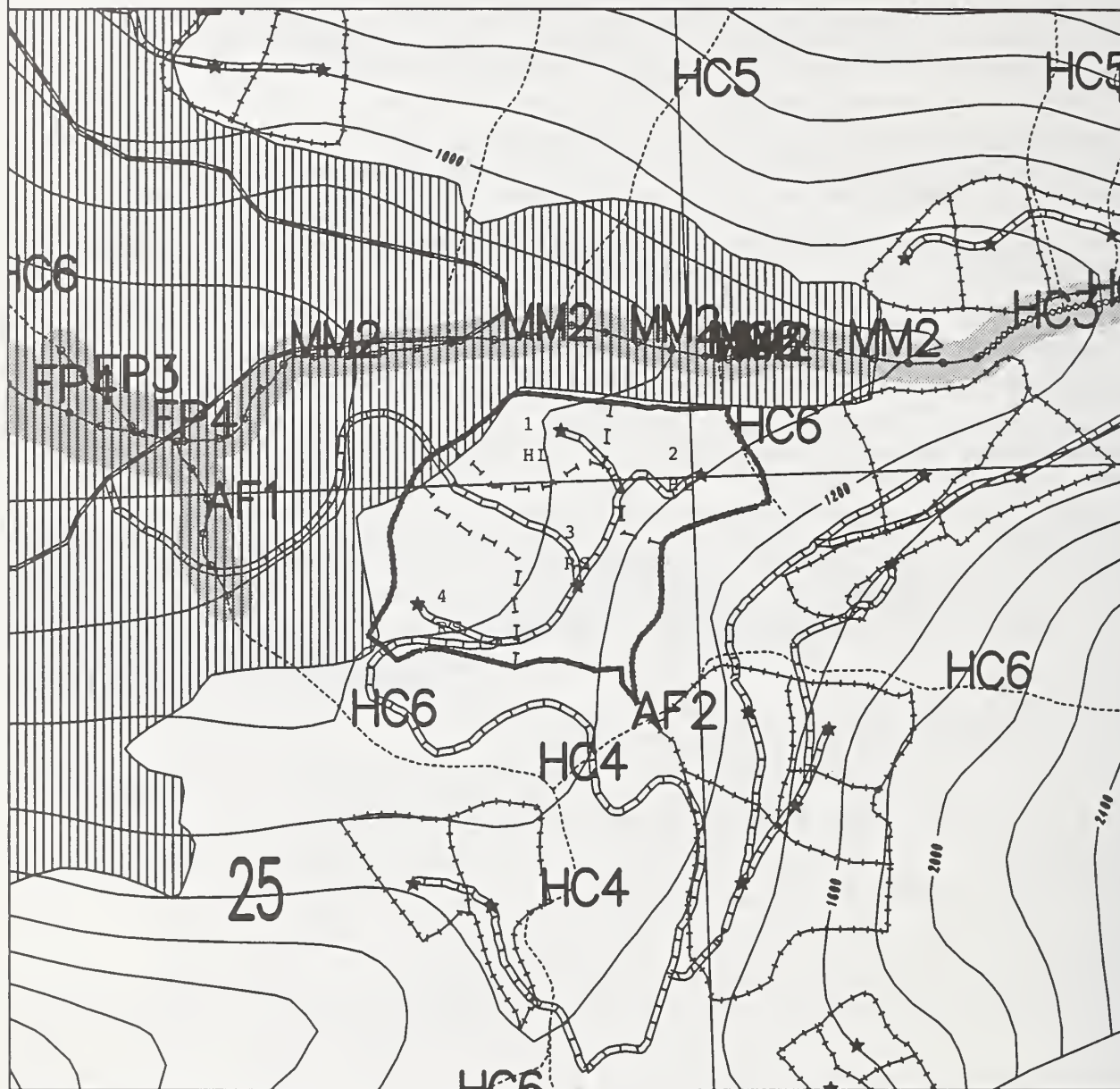
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7032

PLANNED HARVEST UNIT MAP

ACRES: 58 VOLUME: 1526 MBP QUAD(s): KTND5 QUARTER QUAD(s): SES
 PHOTO NUM.: 1279-104 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 BACLE TREE (upward arrow in circle)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGHLEAD
 RS RUNNING SKYLINE

SHELTERWOOD HARVEST
 BRACH BUFFER



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7033</u>	No. Settings <u>3</u>	Alternatives considered <u>2</u>	VQO <u>MM</u>
Planned acres <u>33</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>895</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WHS</u>
Logging methods <u>RS LS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-85</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 22 acres VC5 11 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 9 acres 800-1200 ft. 19 acres 1200-1500 ft. 5 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 15 acres High 18 acres Very High 0 acres
Cedar 0 Hemlock 32 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect South

SOILS

This unit has 33 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction on 0.41 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

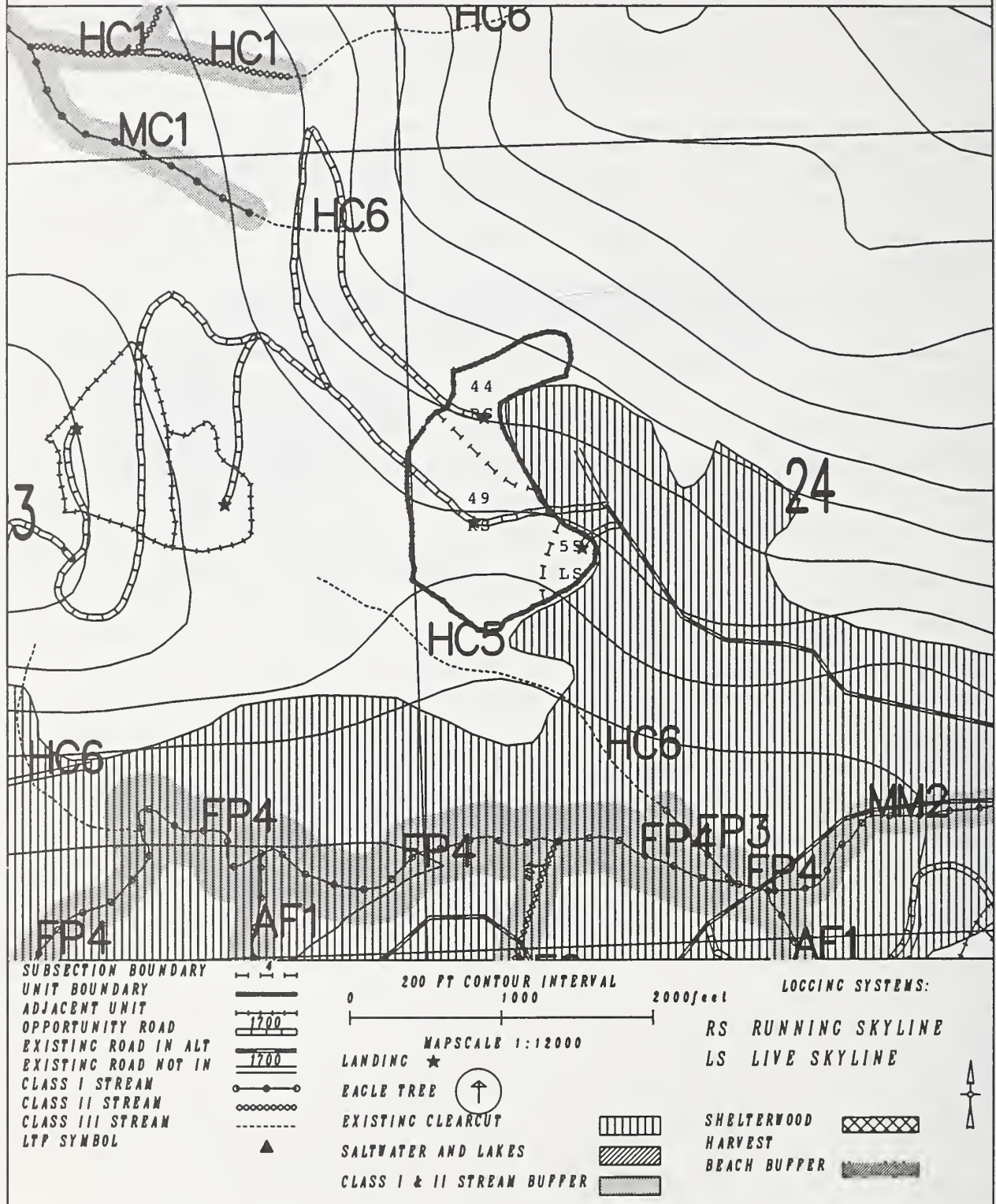
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7033

PLANNED HARVEST UNIT MAP

ACRES: 33 VOLUME: 895 MBF QUAD(s): KTND5 QUARTER QUAD(s): SES
 PHOTO NUM.: 1279-85 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7034</u>	No. Settings <u>2</u>	Alternatives considered <u>2 4 5</u>	VQO <u>MM</u>
Planned acres <u>24</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>599</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CCD</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-55</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 24 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 18 acres 1200-1500 ft. 6 acres over 1500 ft. 0 acres
Mass movement index: Low 2 acres Medium 0 acres High 22 acres Very High 0 acres
Cedar 0 Hemlock 23 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 24 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 22 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Replanting of yellow cedar should be considered.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction on 0.16 miles of road
and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

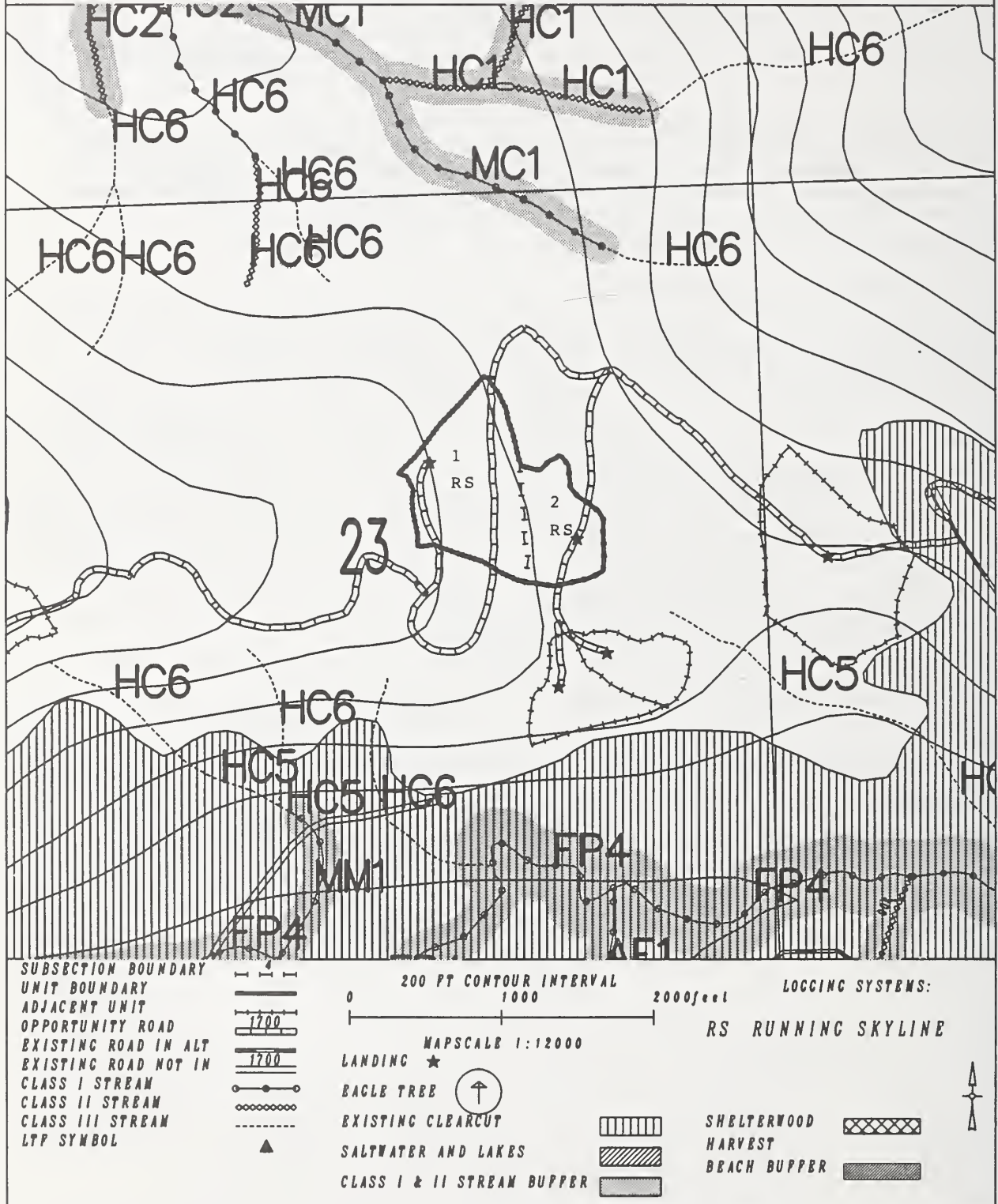
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7034

PLANNED HARVEST UNIT MAP

ACRES: 24 VOLUME: 599 MBP QUAD(s): KTND5 QUARTER QUAD(s): SES
 PHOTO NUM.: 1279-55 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following
 intended design of the harvest unit and associated roads.



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7035</u>	No. Settings <u>4</u>	Alternatives considered <u>2</u> <u>4</u>	VQO <u>M</u>
Planned acres <u>32</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>812</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WHS</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-56</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 30 acres VC5 2 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 4 acres over 1500 ft. 28 acres
Mass movement index: Low 0 acres Medium 0 acres High 32 acres Very High 0 acres
Cedar 0 Hemlock 29 Mixed 3 Percent Seen 63 Percent Unseen 38 Aspect South

SOILS

This unit has 32 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 31 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).
Oversteepened slopes may require full bench construction on 1.91 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

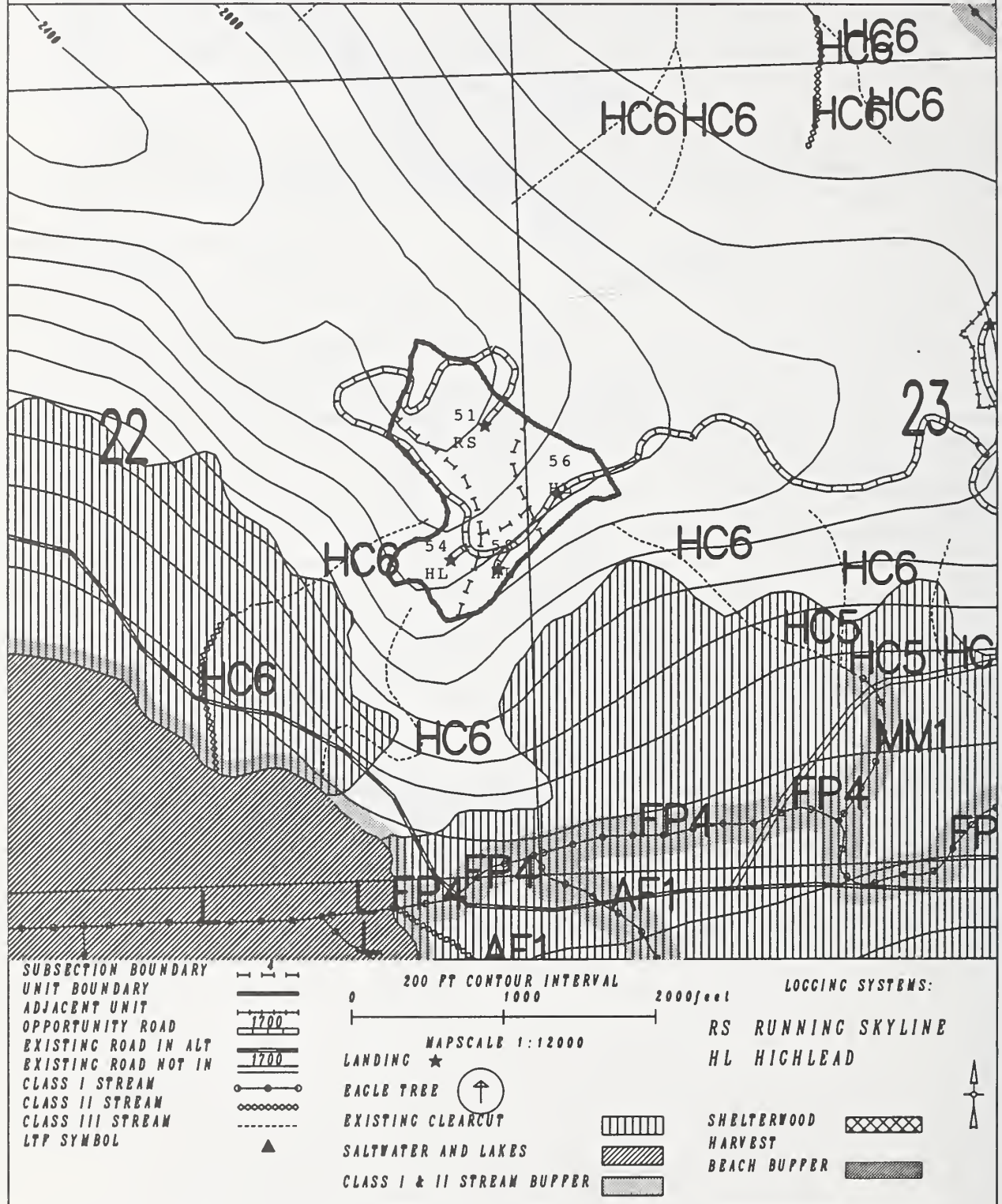
VCU: 7370

UNIT NUMBER: 7035

PLANNED HARVEST UNIT MAP

ACRES: 32 VOLUME: 812 MBP QUAD(s): KTND5 QUARTER QUAD(s): SES
 PHOTO NUM.: 1279-56 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7036</u>	No. Settings <u>3</u>	Alternatives considered <u>2</u> <u>4</u>	VQO <u>M</u>
Planned acres <u>46</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1149</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WHS</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-36</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 46 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 1 acres 800-1200 ft. 13 acres 1200-1500 ft. 14 acres over 1500 ft. 18 acres
Mass movement index: Low 0 acres Medium 0 acres High 46 acres Very High 0 acres
Cedar 0 Hemlock 45 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 45 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 34 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

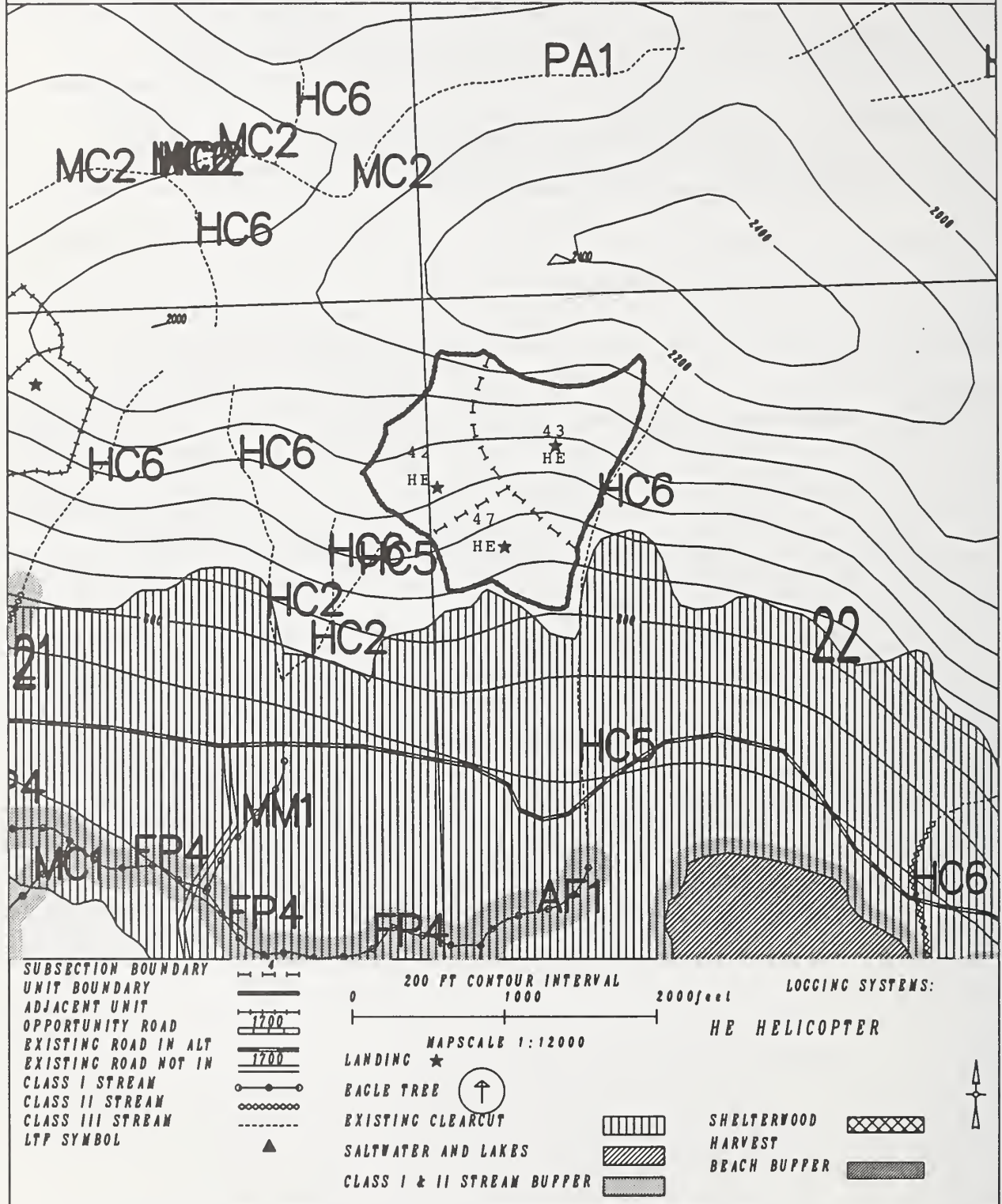
VCU: 7370

UNIT NUMBER: 7036

PLANNED HARVEST UNIT MAP

ACRES: 46 VOLUME: 1149 MBF QUAD(s): KTND5 QUARTER QUAD(s): SES
 PHOTO NUM.: 1279-36 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7037</u>	No. Settings <u>2</u>	Alternatives considered <u>2</u>	VQO <u>M</u>
Planned acres <u>35</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1041</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WHS</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-36</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 9 acres VC5 26 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 14 acres 1200-1500 ft. 12 acres over 1500 ft. 9 acres
Mass movement index: Low 0 acres Medium 0 acres High 35 acres Very High 0 acres
Cedar 0 Hemlock 34 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has 34 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 33 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).
Oversteepened slopes may require full bench construction on 0.22 miles of road and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 3 streams which have fish passage requirements, of these passes 3 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

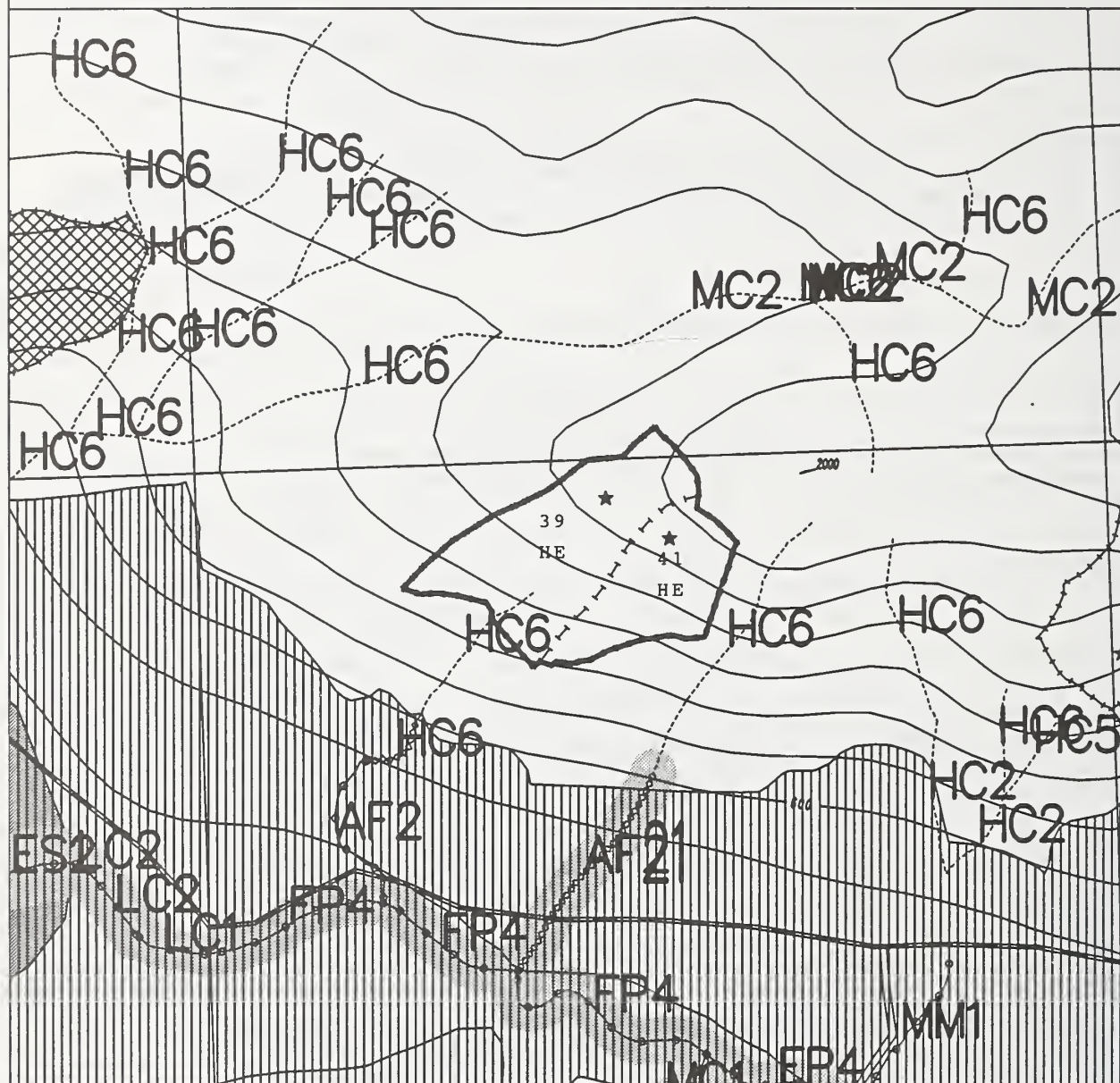
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7037

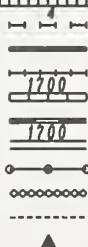
PLANNED HARVEST UNIT MAP

ACRES: 35 VOLUME: 1041 MBP QUAD(s): KTND5 QUARTER QUAD(s): SES
 PHOTO NUM.: 1279-36 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★
 EAGLE TREE (symbol)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:
 HE HELICOPTER

SHELTERWOOD
 HARVEST
 BEACH BUFFER



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7038</u>	No. Settings <u>2</u>	Alternatives considered <u>2</u>	VQO <u>PR</u>
Planned acres <u>52</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1630</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CCD</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Shelter wood</u>		1981 Photo <u>1279-111</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 52 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 32 acres 800-1200 ft. 19 acres 1200-1500 ft. 1 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 35 acres High 17 acres Very High 0 acres
Cedar 0 Hemlock 52 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 52 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 16 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

Oversteepened slopes may require full bench construction on 0.19 miles of road
and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Maintain adequate distribution of snags by leaving 0.1 acre-sized patches of green trees within the unit for every 10 acres harvested. Snag patches must be compatible with logging system and safe working conditions.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

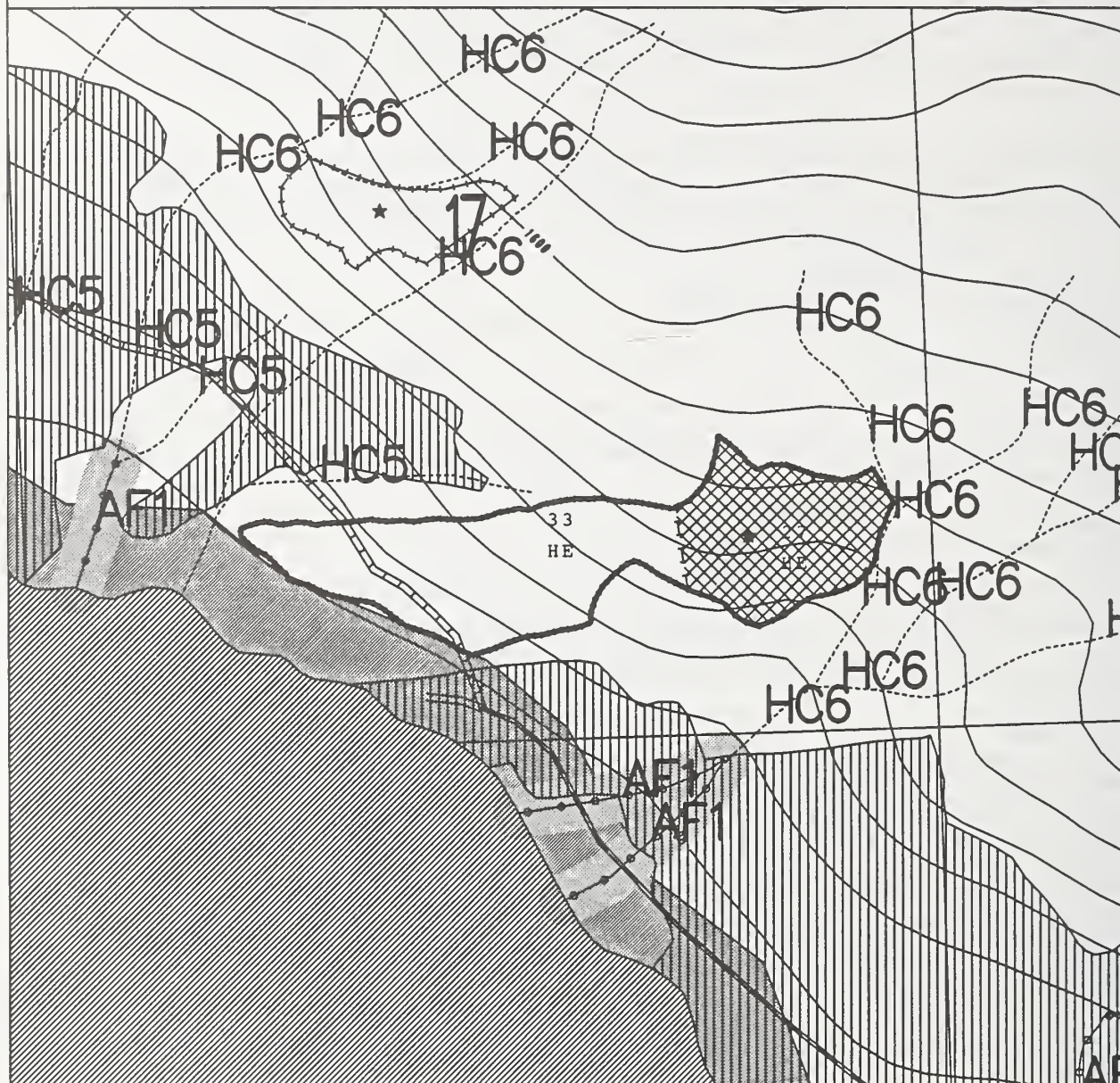
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7038

PLANNED HARVEST UNIT MAP

ACRES: 52 VOLUME: 1630 MBP QUAD(s): KTND5 QUARTER QUAD(s): SES/SWS
 PHOTO NUM.: 1279-111 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HE HELICOPTER



SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR WRPA DEIS

Unit <u>7039</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u>	VQO <u>PR</u>
Planned acres <u>11</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>345</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WHM</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-111</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 11 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 5 acres 1200-1500 ft. 6 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 11 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 5 Mixed 6 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 11 acres that may require partial or full suspension (BMP 13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the HEAD OF NEETS BAY viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

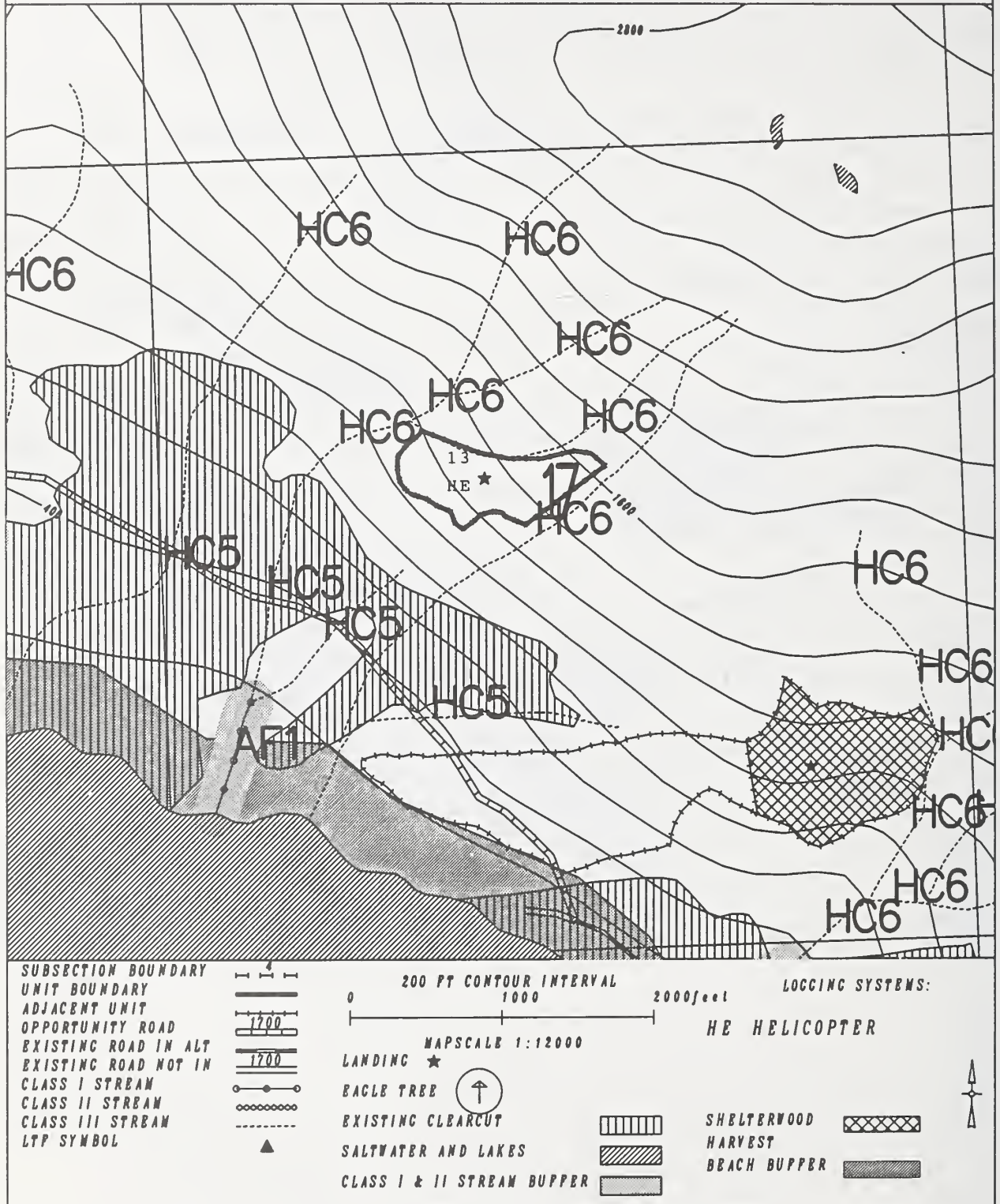
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7039

PLANNED HARVEST UNIT MAP

ACRES: 11 VOLUME: 345 MBP QUAD(s): KTND5 QUARTER QUAD(s): SES/SWS
 PHOTO NUM.: 1279-111 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following
 intended design of the harvest unit and associated roads.



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7040</u>	No. Settings <u>1</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>M</u>
Planned acres <u>32</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1091</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WDC</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-154</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 23 acres VC6 9 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 32 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 9 acres High 23 acres Very High 0 acres
Cedar 0 Hemlock 26 Mixed 6 Percent Seen 100 Percent Unseen 0 Aspect East

SOILS

This unit has high mass movement index soils. Partial log suspension required over these areas. (BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 19 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

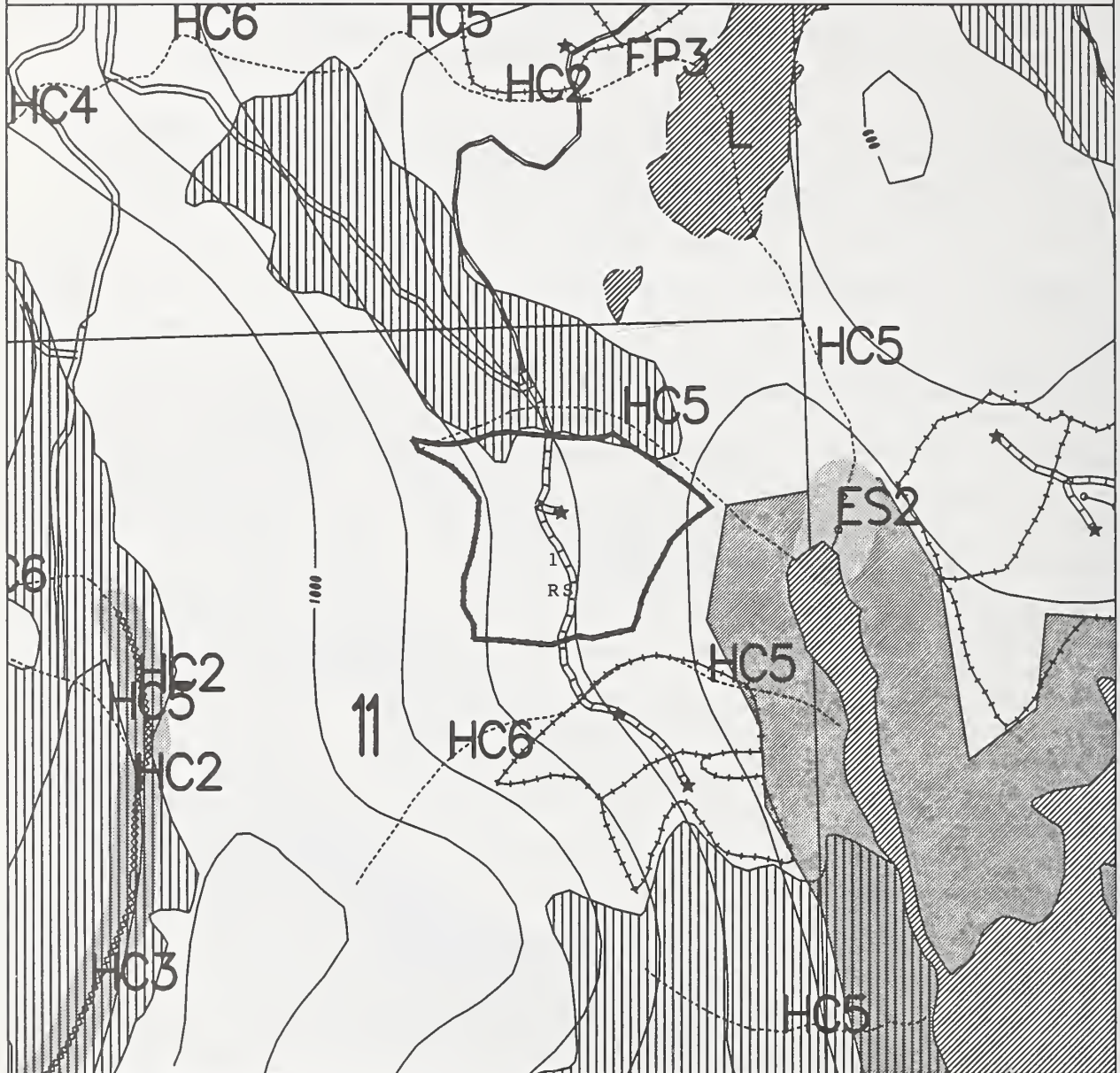
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7040

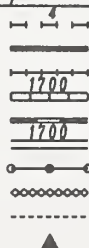
PLANNED HARVEST UNIT MAP

ACRES: 32 VOLUME: 1091 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWN
 PHOTO NUM.: 1179-154 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE



SHELTERWOOD

HARVEST

BEACH BUFFER



July 02, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR WRPA DEIS

Unit <u>7041</u>	No. Settings <u>2</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>M</u>
Planned acres <u>26</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>835</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WHS</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-15</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 24 acres VC6 2 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 26 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 17 acres High 9 acres Very High 0 acres
Cedar 0 Hemlock 14 Mixed 12 Percent Seen 100 Percent Unseen 0 Aspect East

SOILS

This unit has 26 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 8 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Potentially very low volume per acre.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

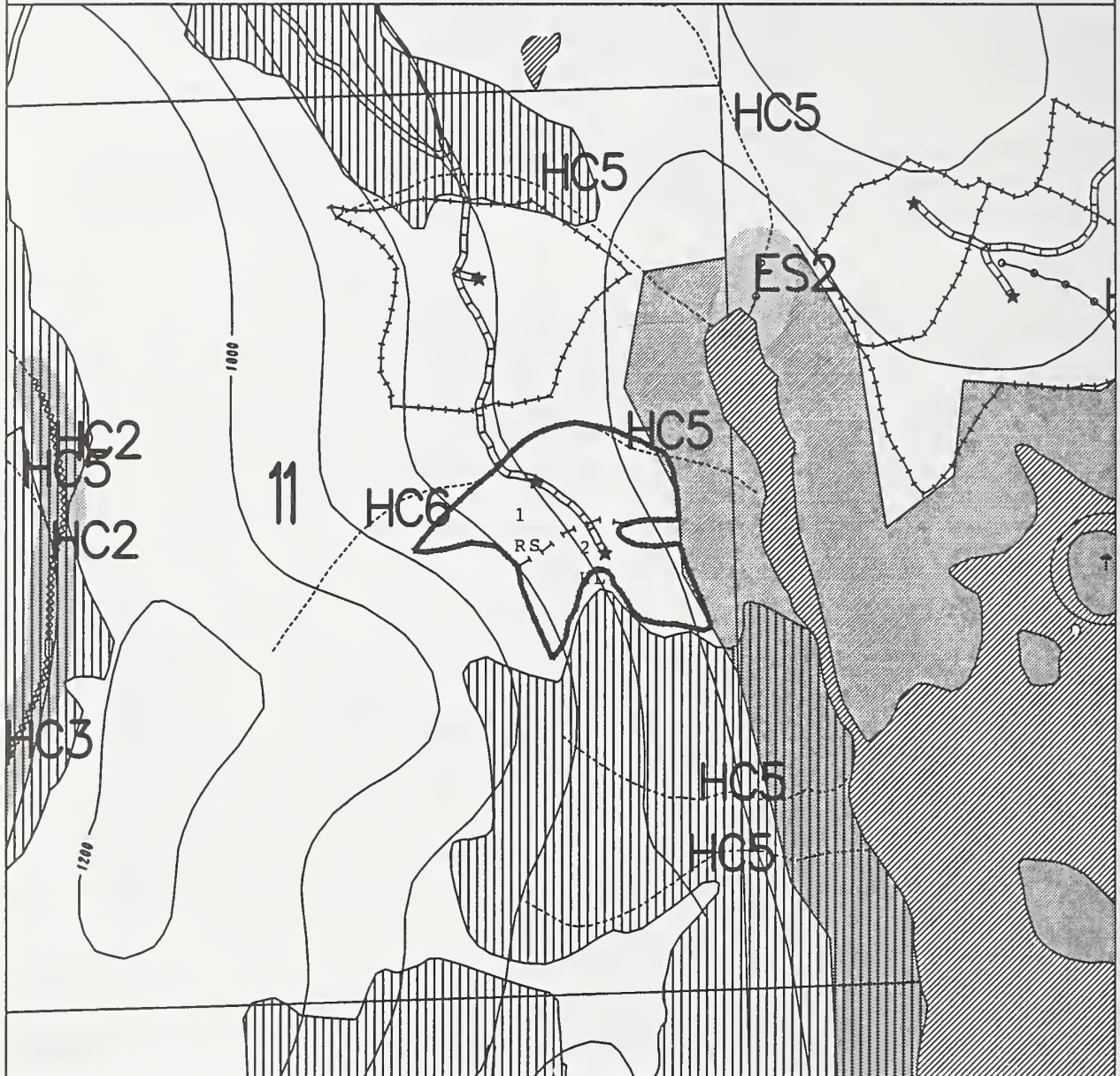
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7041

PLANNED HARVEST UNIT MAP

ACRES: 26 VOLUME: 835 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWN
 PHOTO NUM.: 1179-15 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL

0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE

HL HIGHLEAD

SHELTERWOOD

HARVEST

BEACH BUFFER



July 09, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit 7042 No. Settings 3 Alternatives considered 3 4 6 VQO M
Planned acres 70 Quad KTND5SWN Windthrow risk H
Estimated volume (mbf) 2195 Mgmt Area K32 VCU 7370 Plant Series CCD
Logging methods HL SL WAA 510 Forest type Hemlock
Silvicultural system Clearcut 1981 Photo 1179-154

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 70 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 70 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 70 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 70 Mixed 0 Percent Seen 69 Percent Unseen 31 Aspect South

SOILS

This unit has 70 acres that may require partial or full suspension (BMP 13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 49 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nestsite is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7042

PLANNED HARVEST UNIT MAP

ACRES: 70 VOLUME: 2195 MBF QUAD(s): KTND5 QUARTER QUAD(s): SWN
 PHOTO NUM.: 1179-154 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 EAGLE TREE (↑)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGHLEAD
 SL SLACKLINE

SHELTERWOOD
 HARVEST
 BEACH BUFFER

July 09, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7043</u>	No. Settings <u>5</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>M</u>
Planned acres <u>48</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1205</u>		Mgmt Area <u>K32</u> VCU <u>7360</u>	Plant Series <u>WDC</u>
Logging methods <u>HL RS LS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-134</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 47 acres VC5 1 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 48 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 1 acres Medium 22 acres High 25 acres Very High 0 acres
Cedar 0 Hemlock 46 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has 32 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit contains 16 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

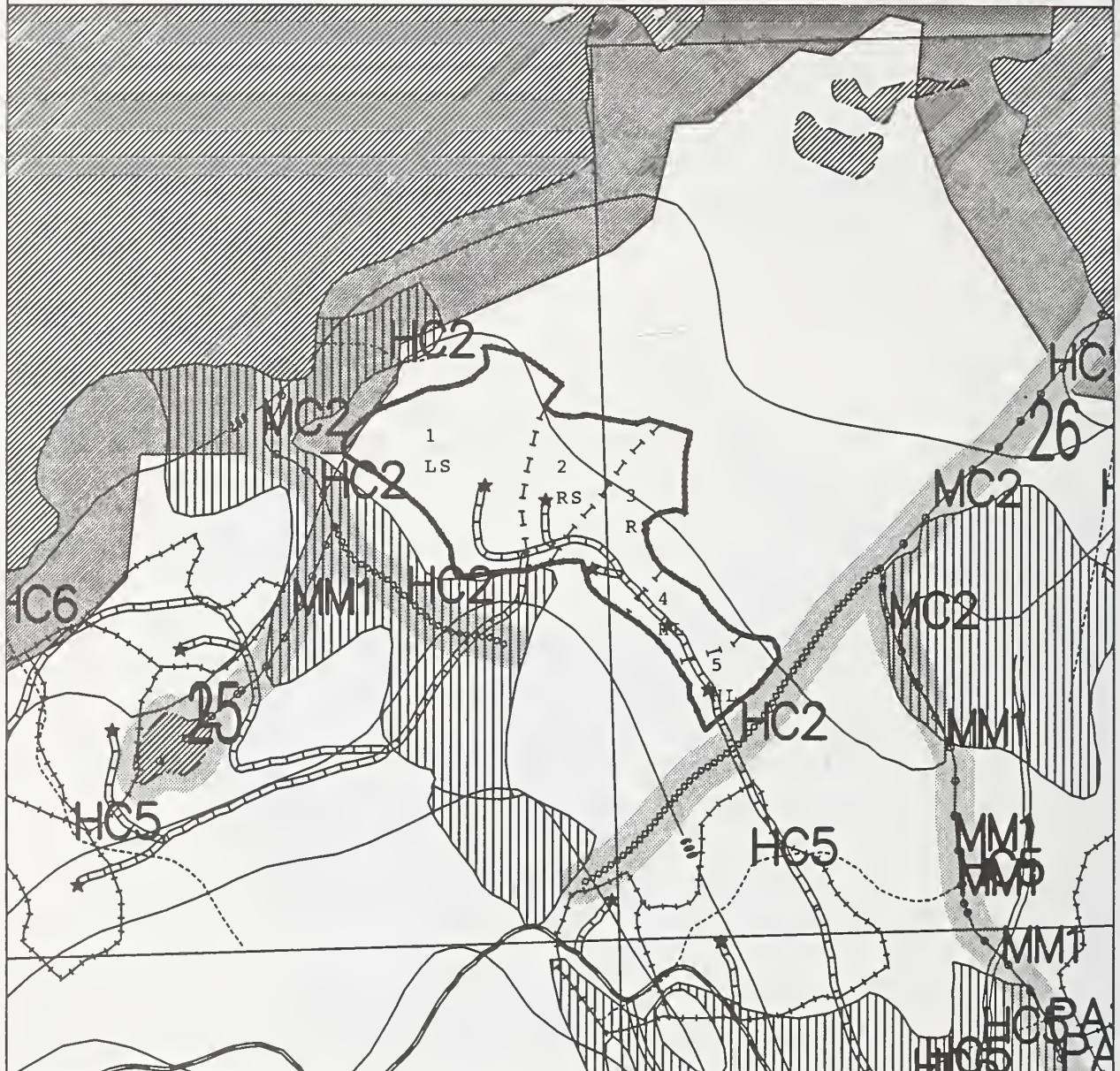
VCU: 7360

UNIT NUMBER: 7043

PLANNED HARVEST UNIT MAP

ACRES: 48 VOLUME: 1205 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-154 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



0 200 FT CONTOUR INTERVAL 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (upward arrow in circle)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

LS LIVE SKYLINE

RS RUNNING SKYLINE

HL HIGHLEAD

SHELTERWOOD

HARVEST

BEACH BUFFER



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7044</u>	No. Settings <u>2</u>	Alternatives considered <u>3 4 6</u>	VQO <u>M</u>
Planned acres <u>36</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>906</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CMB</u>
Logging methods <u>HL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-133</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 35 acres VC5 1 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 25 acres 800-1200 ft. 11 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 1 acres Medium 21 acres High 14 acres Very High 0 acres
Cedar 0 Hemlock 35 Mixed 0 Percent Seen 86 Percent Unseen 14 Aspect East

SOILS

This unit has 36 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 21 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7045</u>	No. Settings <u>2</u>	Alternatives considered <u>3 4 6</u>	VQO <u>MM</u>
Planned acres <u>25</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>683</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CCD</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-159</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 16 acres VC5 9 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 25 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 2 acres Medium 6 acres High 17 acres Very High 0 acres
Cedar 0 Hemlock 25 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect South

SOILS

This unit has 25 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 12 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 1 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nest site is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7046</u>	No. Settings <u>5</u>	Alternatives considered <u>3 4 6</u>	VQO <u>PR</u>
Planned acres <u>35</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>952</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CMC</u>
Logging methods <u>HL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-159</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 23 acres VC5 12 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 35 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 16 acres Medium 19 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 34 Mixed 0 Percent Seen 58 Percent Unseen 42 Aspect North

SOILS

This unit has 34 acres that may require partial or full suspension (BMP 13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 12 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nest site is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

ACRES: 35 VOLUME: 952 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
PHOTO NUM.: 1179-159 LANDNET INFO TOWNSHIP 70S RANGE 90E

0 1000 2000 feet

HL HIGHLEAD
RS RUNNING SKYLINE

LANDING ★
BAGLE TREE 

EXISTING CLEARCUT
SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

SHELTERWOOD
HARVEST
BEACH BUFFE

July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7047</u>	No. Settings <u>6</u>	Alternatives considered <u>3 5 6</u>	VQO <u>PR</u>
Planned acres <u>50</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1569</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CMC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-160</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 50 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 50 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 21 acres Medium 29 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 14 Mixed 36 Percent Seen 45 Percent Unseen 55 Aspect East

SOILS

This unit has 33 acres that may require partial or full suspension (BMP 13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 18 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 8 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nest site is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

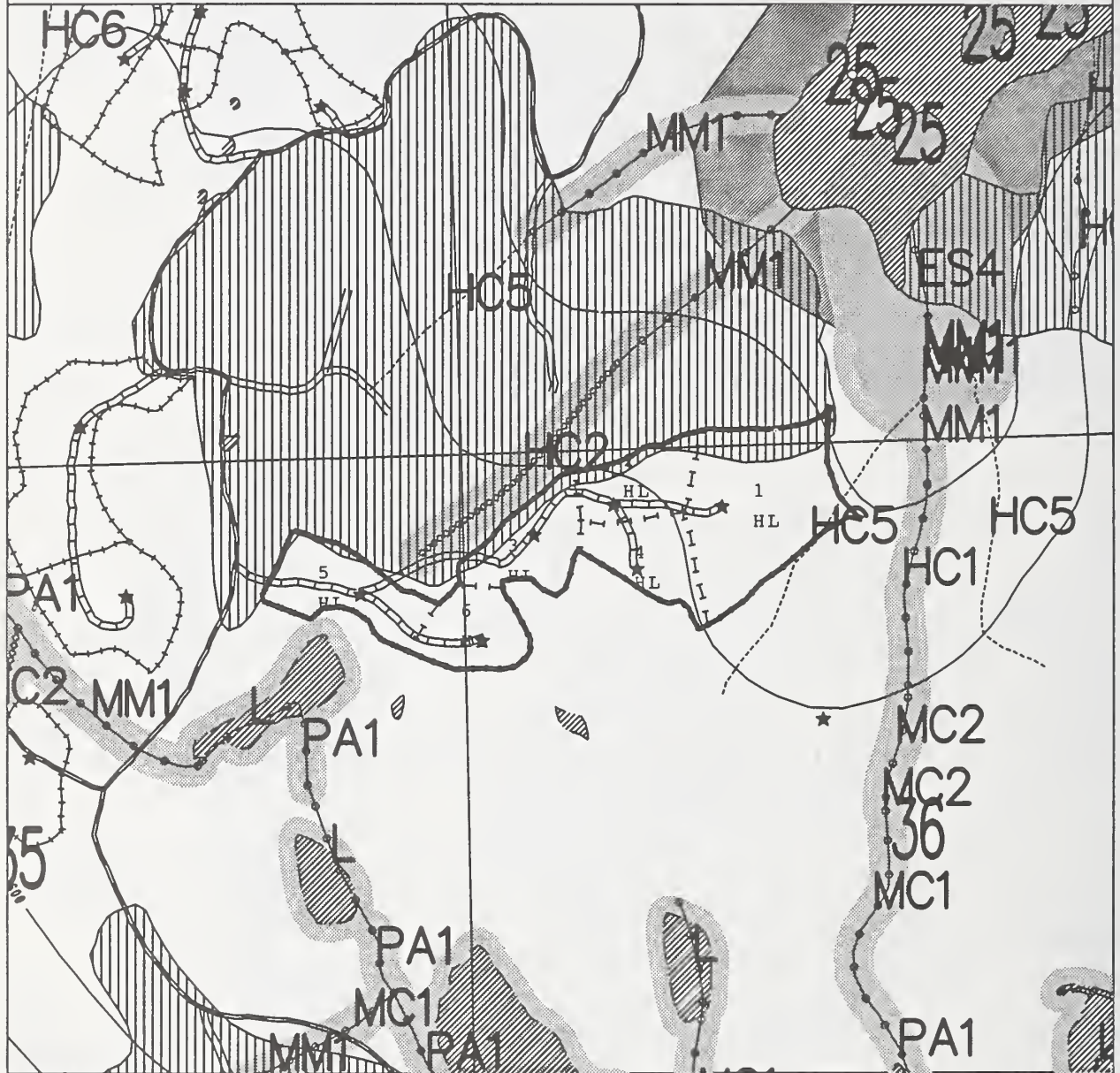
VCU: 7370

UNIT NUMBER: 7047

PLANNED HARVEST UNIT MAP

ACRES: 50 VOLUME: 1569 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-160 LANDNET INFO TOWNSHIP 70S RANCR 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 EAGLE TREE (upward arrow)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:
 HL HIGHLEAD

SHELTERWOOD
 HARVEST
 BEACH BUFFER



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7048</u>	No. Settings <u>2</u>	Alternatives considered <u>3</u> <u>6</u>	VQO <u>MM</u>
Planned acres <u>33</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1249</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CCD</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-188</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 11 acres VC6 22 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 12 acres 1200-1500 ft. 19 acres over 1500 ft. 2 acres
Mass movement index: Low 3 acres Medium 0 acres High 30 acres Very High 0 acres
Cedar 0 Hemlock 31 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 32 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit contains 15 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 14 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7048

PLANNED HARVEST UNIT MAP

ACRES: 33VOLUME: 1249

MBF

QUAD(s): KTND5QUARTER QUAD(s): SWS

PHOTO NUM. :

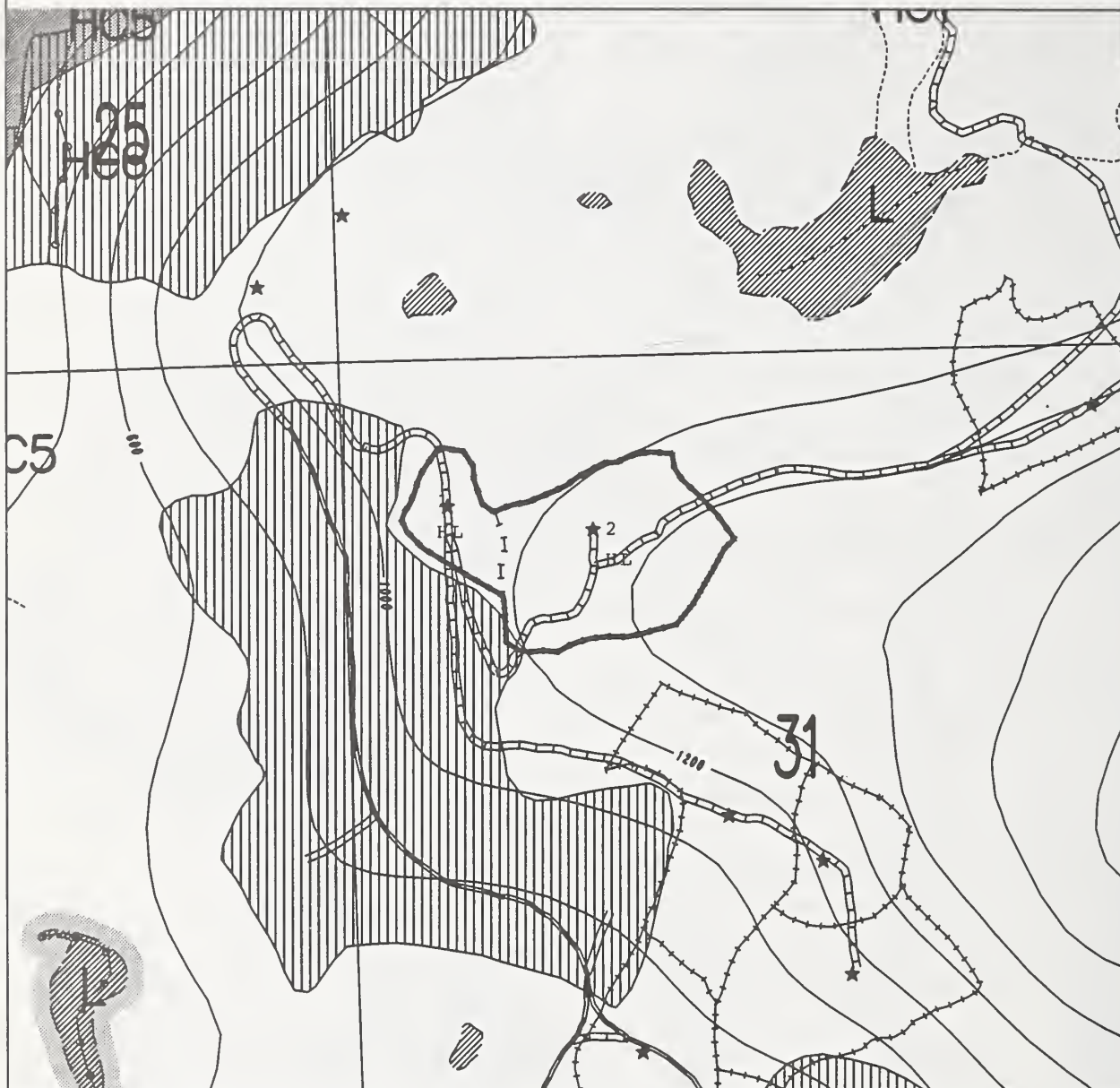
1179-188

LANDNET INFO

TOWNSHIP

70SRANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAPSCALE 1:12000

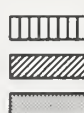
LANDING ★

BACLE TREE (upward arrow in circle)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



SHELTERWOOD
HARVEST
BEACH BUFFER

LOGGING SYSTEMS:

HL HIGHLEAD



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7049</u>	No. Settings <u>1</u>	Alternatives considered <u>3</u>	VQO <u>MM</u>
Planned acres <u>20</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>821</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CCD</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-108</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 0 acres VC6 20 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 3 acres 1200-1500 ft. 13 acres over 1500 ft. 4 acres
Mass movement index: Low 0 acres Medium 0 acres High 20 acres Very High 0 acres
Cedar 0 Hemlock 20 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 20 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 17 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 2 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

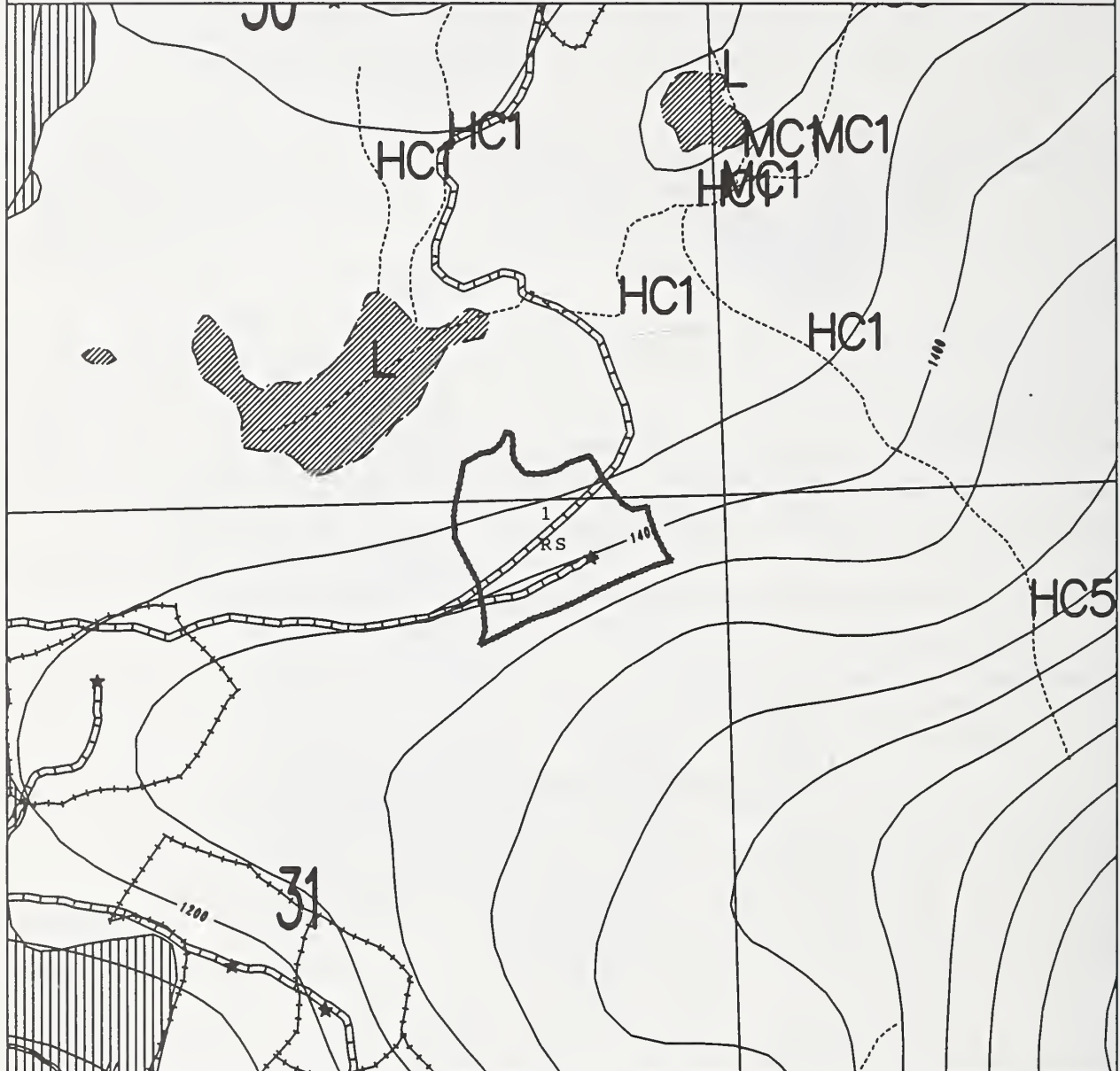
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7049

PLANNED HARVEST UNIT MAP

ACRES: 20 VOLUME: 821 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1279-108 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BAGLE TREE (upward arrow in circle)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE



SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7050</u>	No. Settings <u>4</u>	Alternatives considered <u>3 4 6</u>	VQO <u>PR</u>
Planned acres <u>55</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1668</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CCD</u>
Logging methods <u>HL SL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-109</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 9 acres VC5 46 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 17 acres 1200-1500 ft. 34 acres over 1500 ft. 4 acres
Mass movement index: Low 0 acres Medium 4 acres High 51 acres Very High 0 acres
Cedar 0 Hemlock 37 Mixed 12 Percent Seen 14 Percent Unseen 86 Aspect South

SOILS

This unit has 55 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 34 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7050

PLANNED HARVEST UNIT MAP

ACRBS: 55VOLUME: 1668

MBP

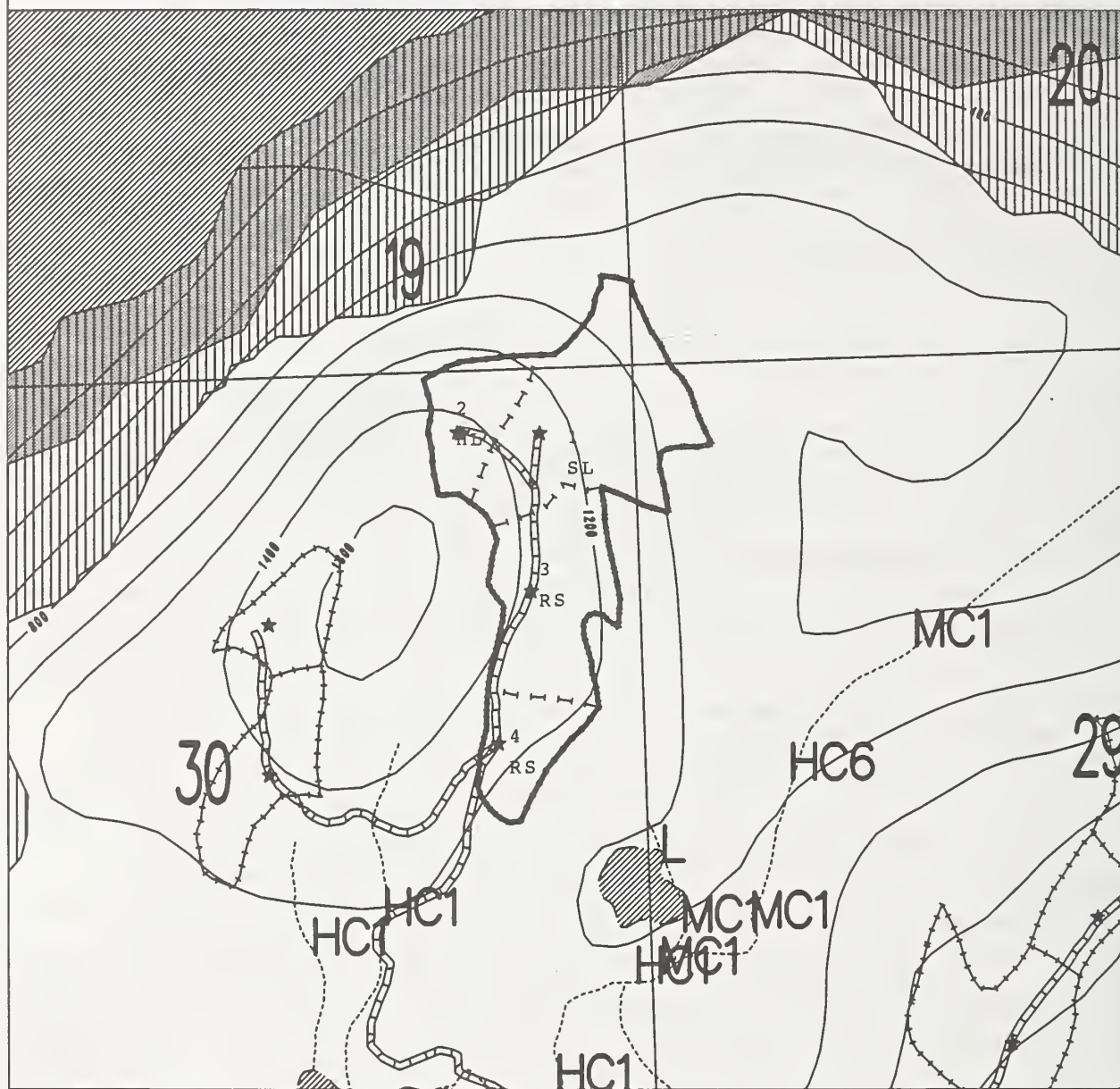
QUAD(s): KTND5QUARTER QUAD(s): SWSPHOTO NUM.: 1279-110

LANDNET INFO

TOWNSHIP

70SRANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

SL SLACKLINE

HL HIGHLEAD

RS RUNNING SKYLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7053</u>	No. Settings <u>3</u>	Alternatives considered <u>4 6</u>	VQO <u>M</u>
Planned acres <u>67</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2031</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u>CCS</u>
Logging methods <u>SL</u> <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Shelter wood</u>		1981 Photo <u>1179-140</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 11 acres VC5 56 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 52 acres 800-1200 ft. 15 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 18 acres Medium 49 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 56 Mixed 4 Percent Seen 83 Percent Unseen 17 Aspect West

SOILS

This unit has 30 acres that may require partial or full suspension (BMP 13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 47 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 4 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of
Bald Eagle nest site. If nest site is active follow the intra-agency agreement
agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the HEAD OF NEETS BAY viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

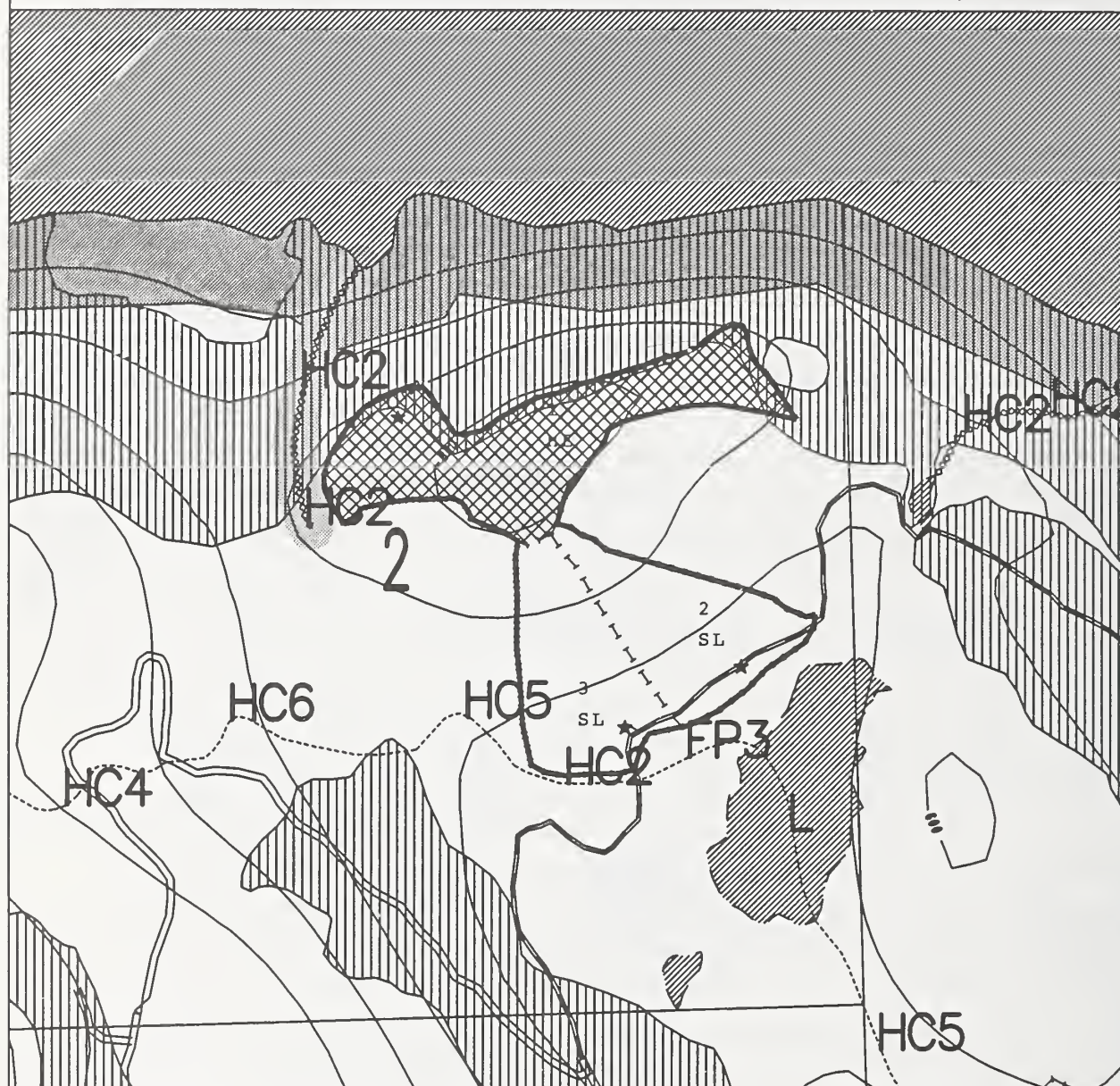
There are no geological mitigation measures anticipated for this unit.

VCU: 7350UNIT NUMBER: 7053

PLANNED HARVEST UNIT MAP

ACRES: 67 VOLUME: 2031 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWN
 PHOTO NUM.: 1179-140 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN ALT
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet
 MAPSCALE 1:12000
 LANDING ★
 EAGLE TREE (↑)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HE HELICOPTER
 SL SLACKLINE

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7054</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>M</u>
Planned acres <u>16</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>502</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CCD</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-154</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 16 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 16 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 16 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 16 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 16 acres that may require partial or full suspension (BMP 13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 16 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of
Bald Eagle nest site. If nestsite is active follow the intra-agency agreement
agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the HEAD OF NEETS BAY viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

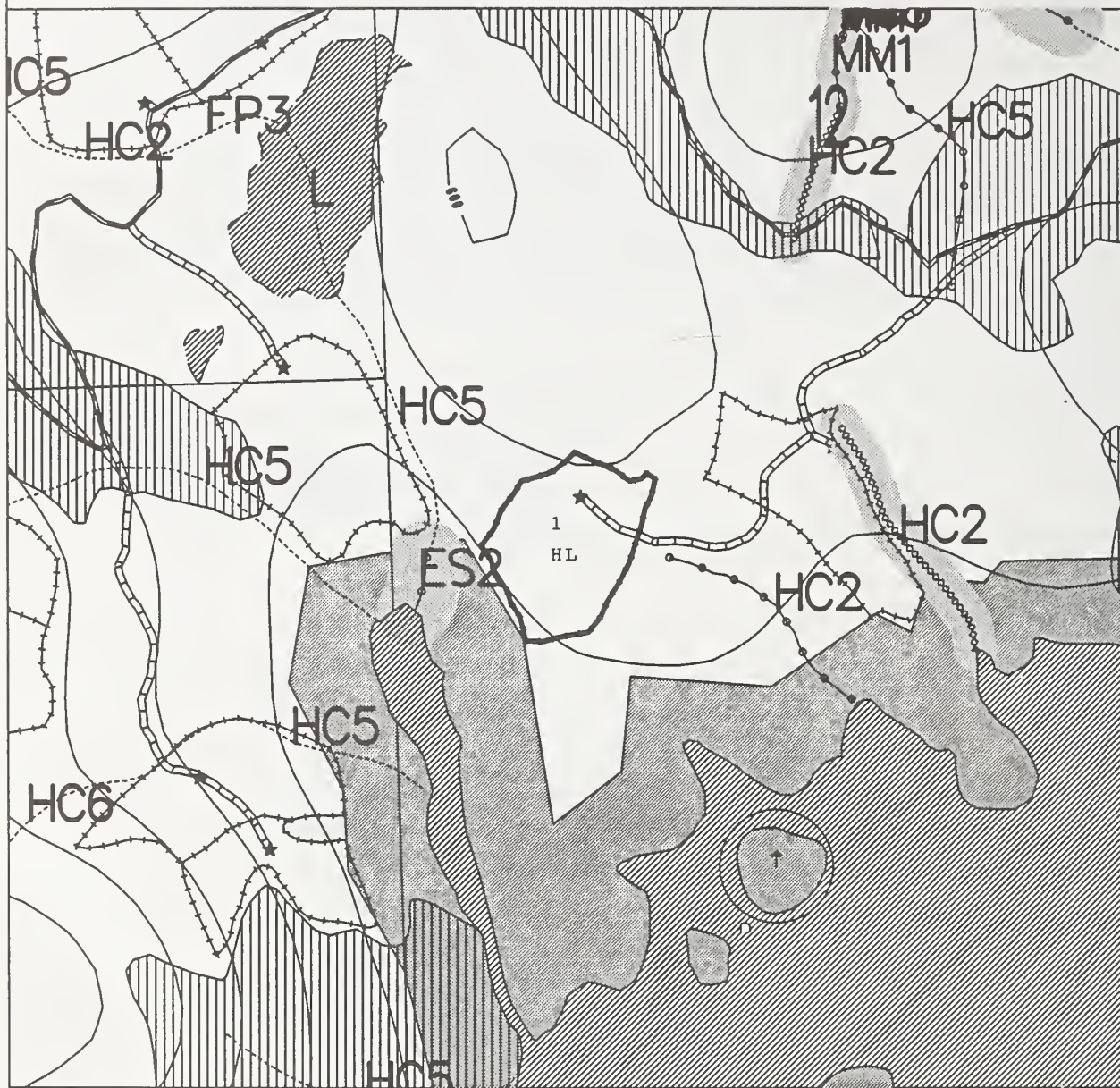
There are no geological mitigation measures anticipated for this unit.

VCU: 7370 UNIT NUMBER: 7054

PLANNED HARVEST UNIT MAP

ACRES: 16 VOLUME: 502 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWN
 PHOTO NUM.: 1179-154 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGHLEAD



SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 09, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NHPA DEIS

Unit <u>7055</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>PR</u>
Planned acres <u>54</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1439</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WHS</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-193</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 40 acres VC5 14 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 1 acres 1200-1500 ft. 18 acres over 1500 ft. 35 acres
Mass movement index: Low 0 acres Medium 20 acres High 34 acres Very High 0 acres
Cedar 0 Hemlock 54 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 54 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 20 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

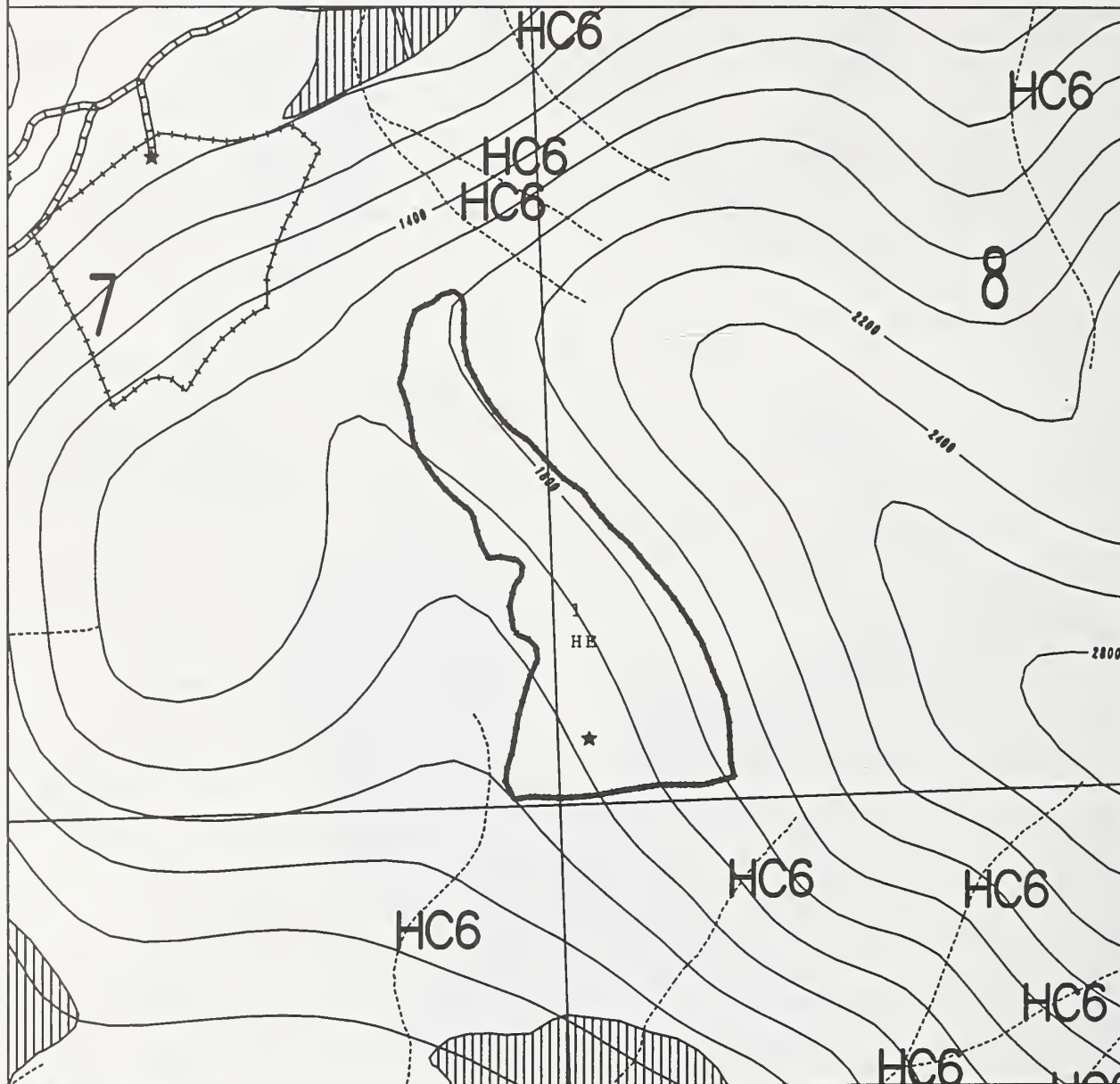
There are no geological mitigation measures anticipated for this unit.

VCU: 7370 UNIT NUMBER: 7055

PLANNED HARVEST UNIT MAP

ACRES: 54 VOLUME: 1439 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWN/SWS
 PHOTO NUM.: 1179-193 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following
 intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HE HELICOPTER



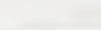
SHELTERWOOD



HARVEST



BEACH BUFFER



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7056</u>	No. Settings <u>1</u>	Alternatives considered <u>4</u>	VQO <u>M</u>
Planned acres <u>46</u>		Quad <u>KINDSES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1348</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CCD</u>
Logging methods <u>RS</u> <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-111</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 15 acres VC5 31 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 1 acres 800-1200 ft. 1 acres 1200-1500 ft. 14 acres over 1500 ft. 30 acres
Mass movement index: Low 0 acres Medium 34 acres High 12 acres Very High 0 acres
Cedar 0 Hemlock 46 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 46 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilverly soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 12 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

ACRES: 46 VOLUME: 1348 MBP QUAD(s): KTND5 QUARTER QUAD(s): SES
PHOTO NUM.: 1279-111 LANDNET INFO TOWNSHIP 70S RANGE 91E

[illegible]

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7057</u>	No. Settings <u>1</u>	Alternatives considered <u>4 5</u>	VQO <u>M</u>
Planned acres <u>11</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>282</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CCS</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-36</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 10 acres VC5 1 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 8 acres over 1500 ft. 3 acres
Mass movement index: Low 0 acres Medium 0 acres High 11 acres Very High 0 acres
Cedar 0 Hemlock 9 Mixed 1 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has 11 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

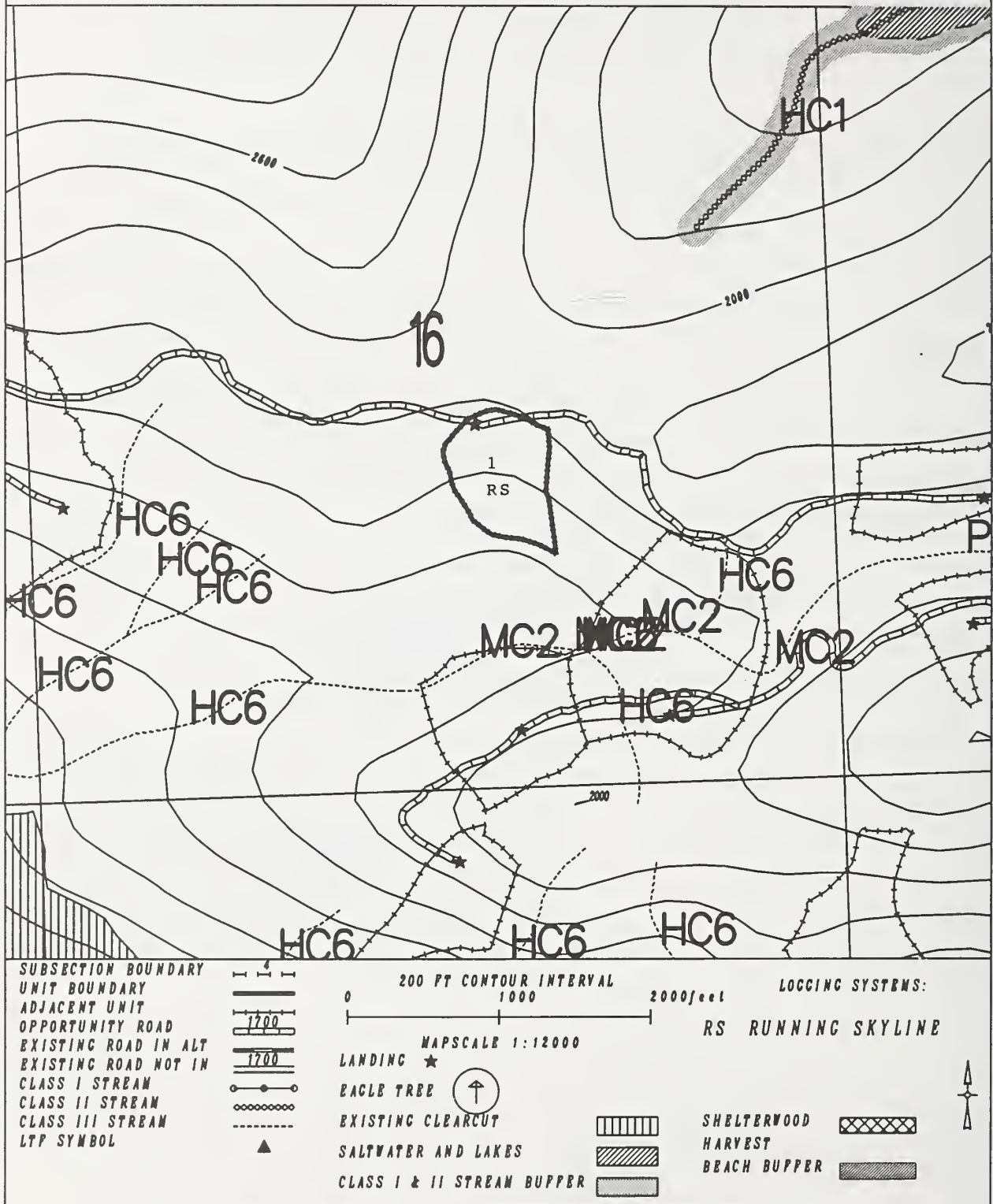
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7057

PLANNED HARVEST UNIT MAP

ACRES: 11 VOLUME: 282 MBP QUAD(s): KTND5 QUARTER QUAD(s): SES
 PHOTO NUM.: 1279-36 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit 7058 No. Settings 2 Alternatives considered 5 VQO M
Planned acres 49 Quad KTND5SES Windthrow risk H
Estimated volume (mbf) 1486 Mgmt Area K32 VCU 7370 Plant Series WHM
Logging methods HL SL WAA 510 Forest type Hemlock
Silvicultural system Clearcut 1981 Photo 1279-36

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 8 acres VC5 41 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 49 acres
Mass movement index: Low 1 acres Medium 0 acres High 48 acres Very High 0 acres
Cedar 0 Hemlock 43 Mixed 6 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has 49 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 30 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

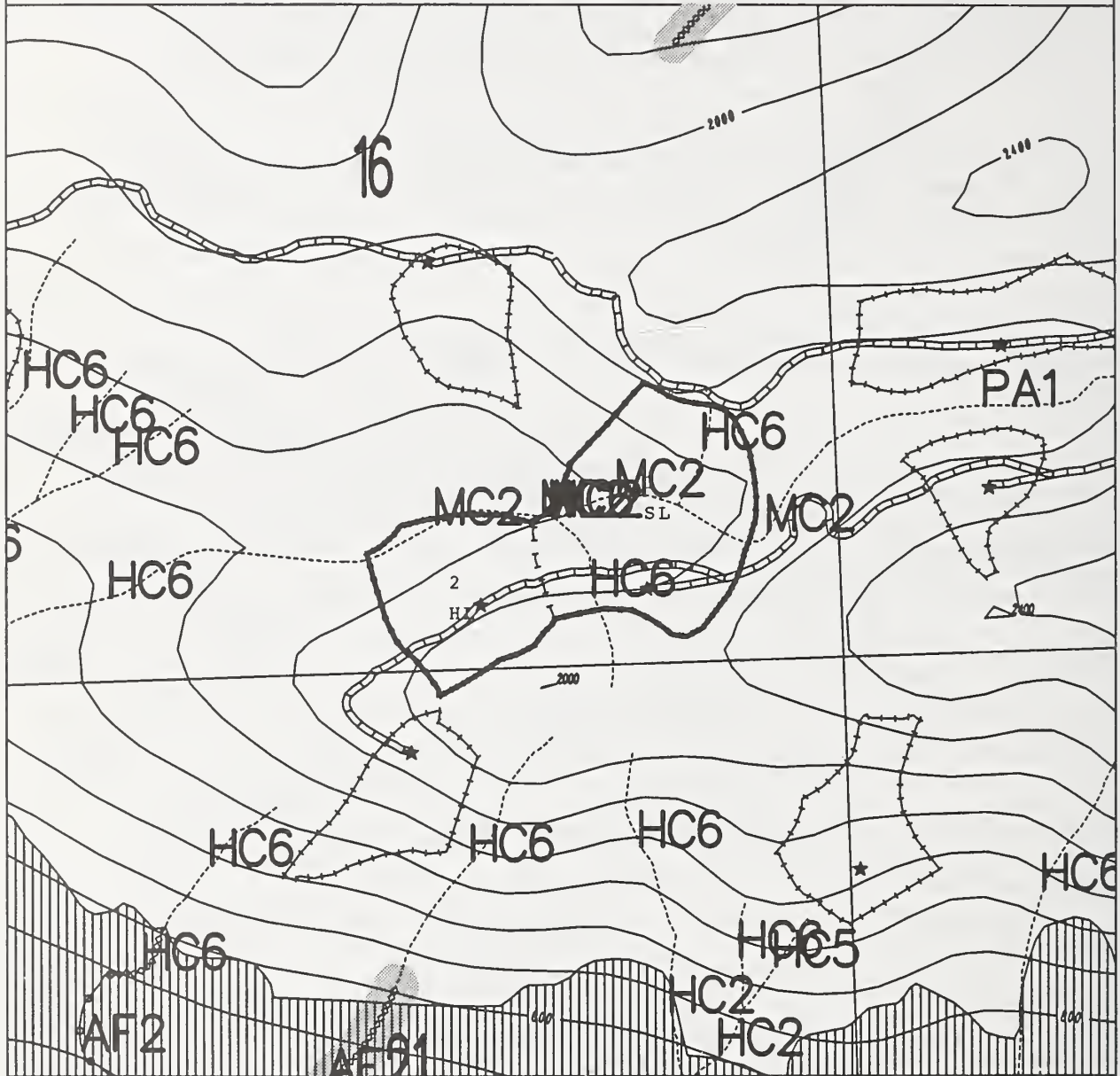
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7058

PLANNED HARVEST UNIT MAP

ACRES: 49 VOLUME: 1486 MBP QUAD(s): KTND5 QUARTER QUAD(s): SES
 PHOTO NUM.: 1279-36 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 EAGLE TREE (↑)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUPPER



LOGGING SYSTEMS:

SL SLACKLINE
 HL HIGHLEAD

SHELTERWOOD
 HARVEST
 BEACH BUPPER



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7059</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>M</u>
Planned acres <u>13</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>395</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WHS</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-36</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 2 acres VC5 11 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 1 acres 800-1200 ft. 5 acres 1200-1500 ft. 4 acres over 1500 ft. 3 acres
Mass movement index: Low 0 acres Medium 0 acres High 13 acres Very High 0 acres
Cedar 0 Hemlock 13 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 12 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 12 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7059

PLANNED HARVEST UNIT MAP

ACRES: 13VOLUME: 395

MBP

QUAD(s): KTND5QUARTER QUAD(s): SES

PHOTO NUM.:

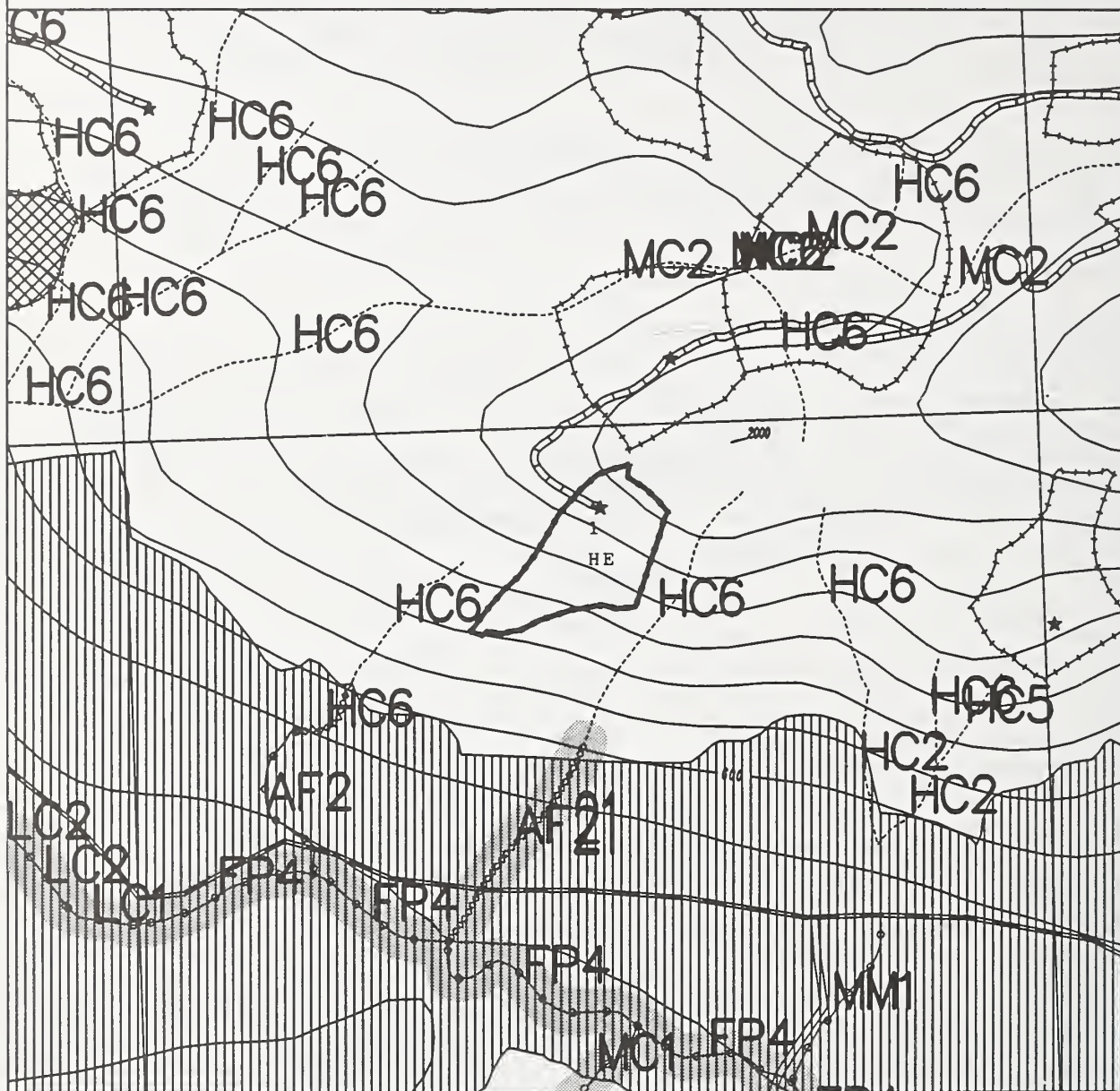
1279-36

LANDNET INFO

TOWNSHIP

70SRANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HE HELICOPTER



SHELTERWOOD

HARVEST

BEACH BUFFER



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7060</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>M</u>
Planned acres <u>15</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>375</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WHS</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-36</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 15 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 1 acres 800-1200 ft. 0 acres 1200-1500 ft. 7 acres over 1500 ft. 7 acres
Mass movement index: Low 0 acres Medium 0 acres High 15 acres Very High 0 acres
Cedar 0 Hemlock 14 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 15 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 10 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7060

PLANNED HARVEST UNIT MAP

ACRES: 15VOLUME: 375

MBP

QUAD(s): KTND5QUARTER QUAD(s): SES

PHOTO NUM. :

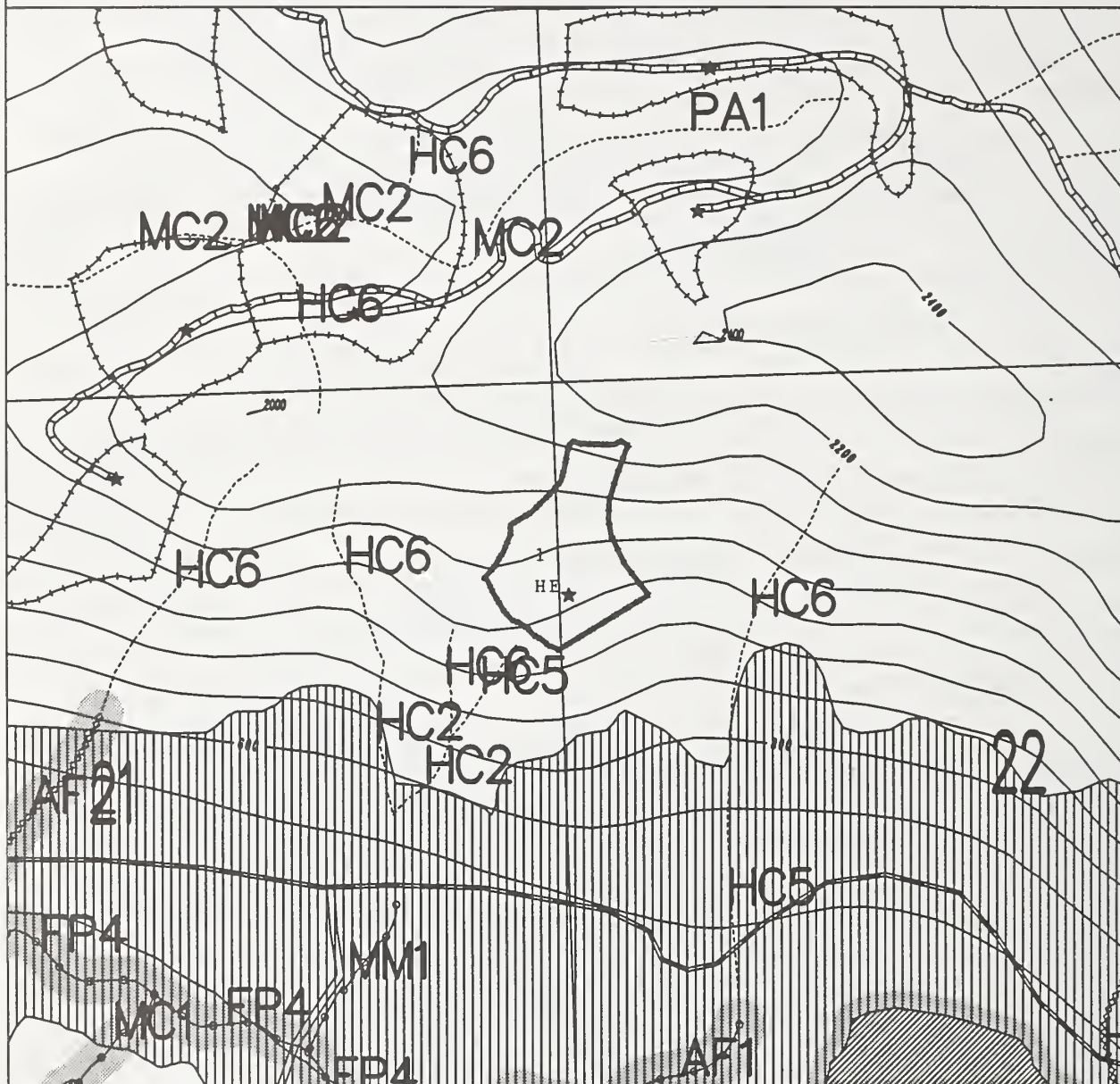
1279-36

LANDNET INFO

TOWNSHIP

70SRANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
EAGLE TREE (↑)
EXISTING CLEARCUT
SALTWATER AND LAKES
CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HE HELICOPTER

SHELTERWOOD
HARVEST
BEACH BUFFER



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7061</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>M</u>
Planned acres <u>9</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>283</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WHS</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-36</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 9 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 9 acres
Mass movement index: Low 0 acres Medium 0 acres High 9 acres Very High 0 acres
Cedar 0 Hemlock 9 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has 8 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 8 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7061

PLANNED HARVEST UNIT MAP

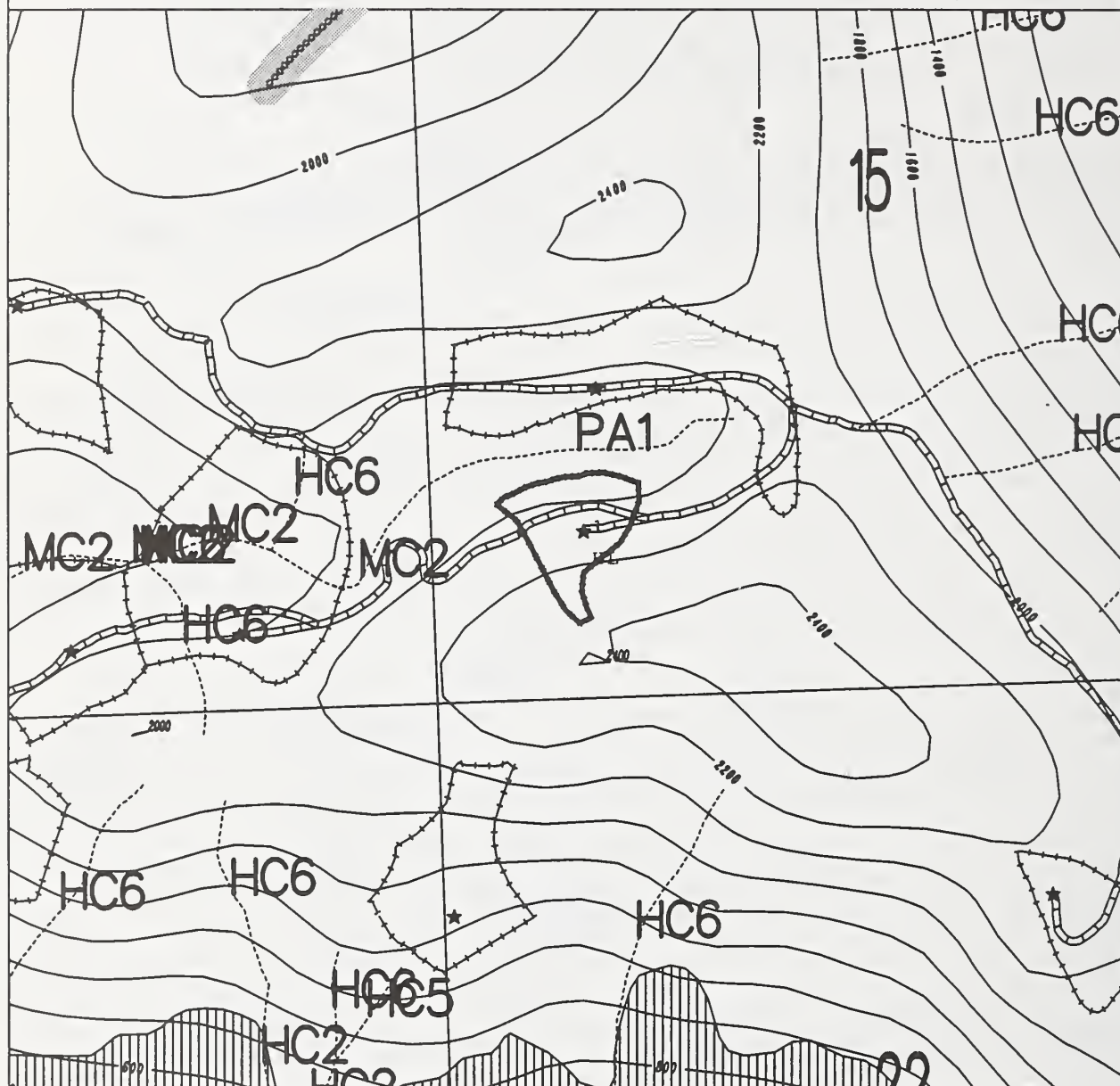
ACRES: 9VOLUME: 283 MBFQUAD(s): KTND5QUARTER QUAD(s): SESPHOTO NUM.: 1279-36

LANDNET INFO

TOWNSHIP

70SRANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:
HL HIGH LEAD

SHELTERWOOD
HARVEST
BEACH BUFFER



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7062</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>M</u>
Planned acres <u>24</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>695</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CMM</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-36</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 9 acres VC5 15 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 24 acres
Mass movement index: Low 22 acres Medium 0 acres High 2 acres Very High 0 acres
Cedar 0 Hemlock 24 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 24 acres that may require partial or full suspension (BMP 13.9)
This unit contains 13 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 2 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7063</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>M</u>
Planned acres <u>9</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>224</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WHS</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-55</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 9 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 9 acres
Mass movement index: Low 0 acres Medium 0 acres High 9 acres Very High 0 acres
Cedar 0 Hemlock 9 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 9 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 9 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

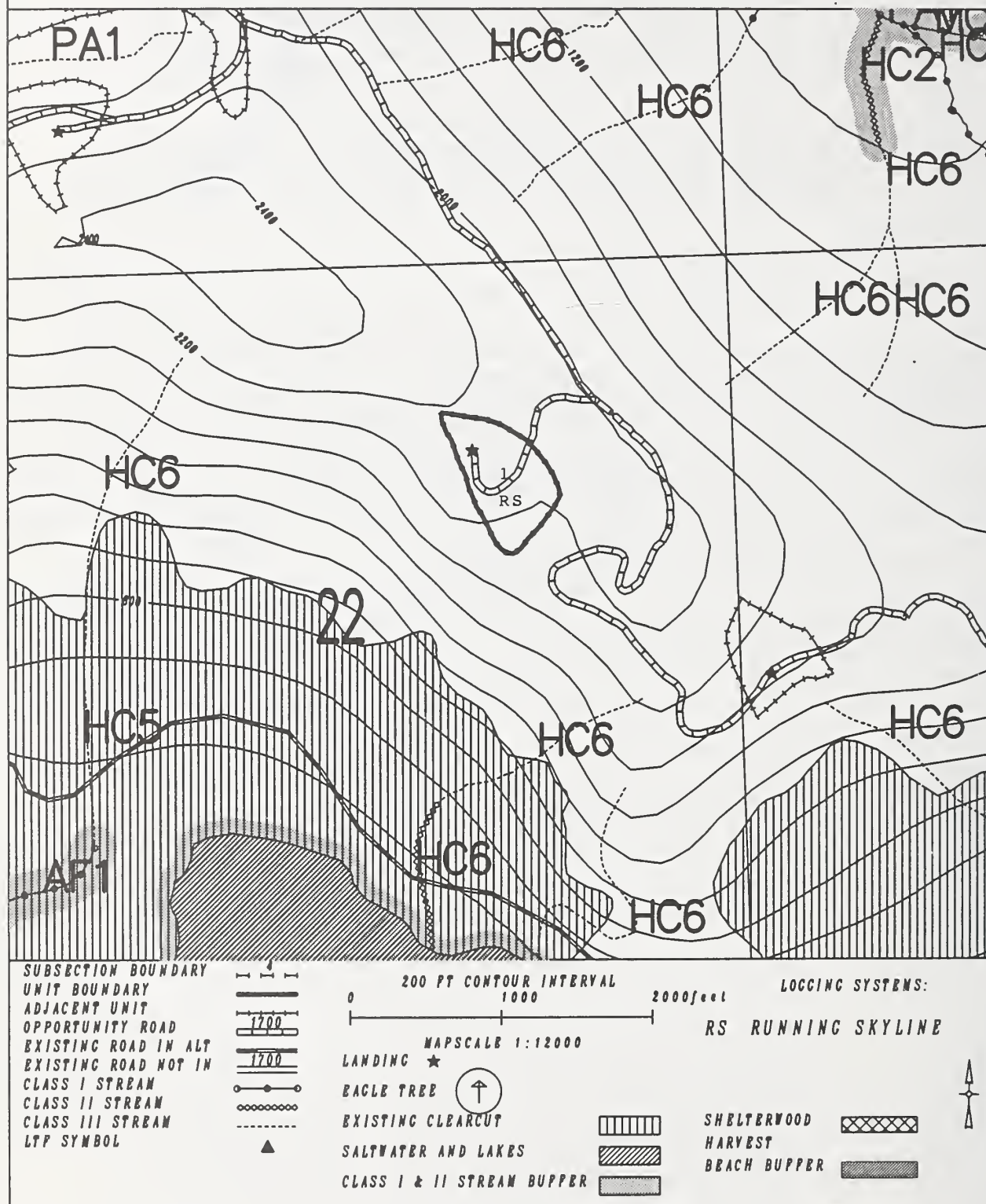
There are no geological mitigation measures anticipated for this unit.

VCU: 7370 UNIT NUMBER: 7063

PLANNED HARVEST UNIT MAP

ACRES: 9 VOLUME: 224 MBP QUAD(*): KTND5 QUARTER QUAD(*): SES
 PHOTO NUM.: 1279-55 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7064</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>7</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>175</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WHS</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-56</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 7 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 1 acres over 1500 ft. 6 acres
Mass movement index: Low 0 acres Medium 0 acres High 7 acres Very High 0 acres
Cedar 0 Hemlock 7 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 7 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 6 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

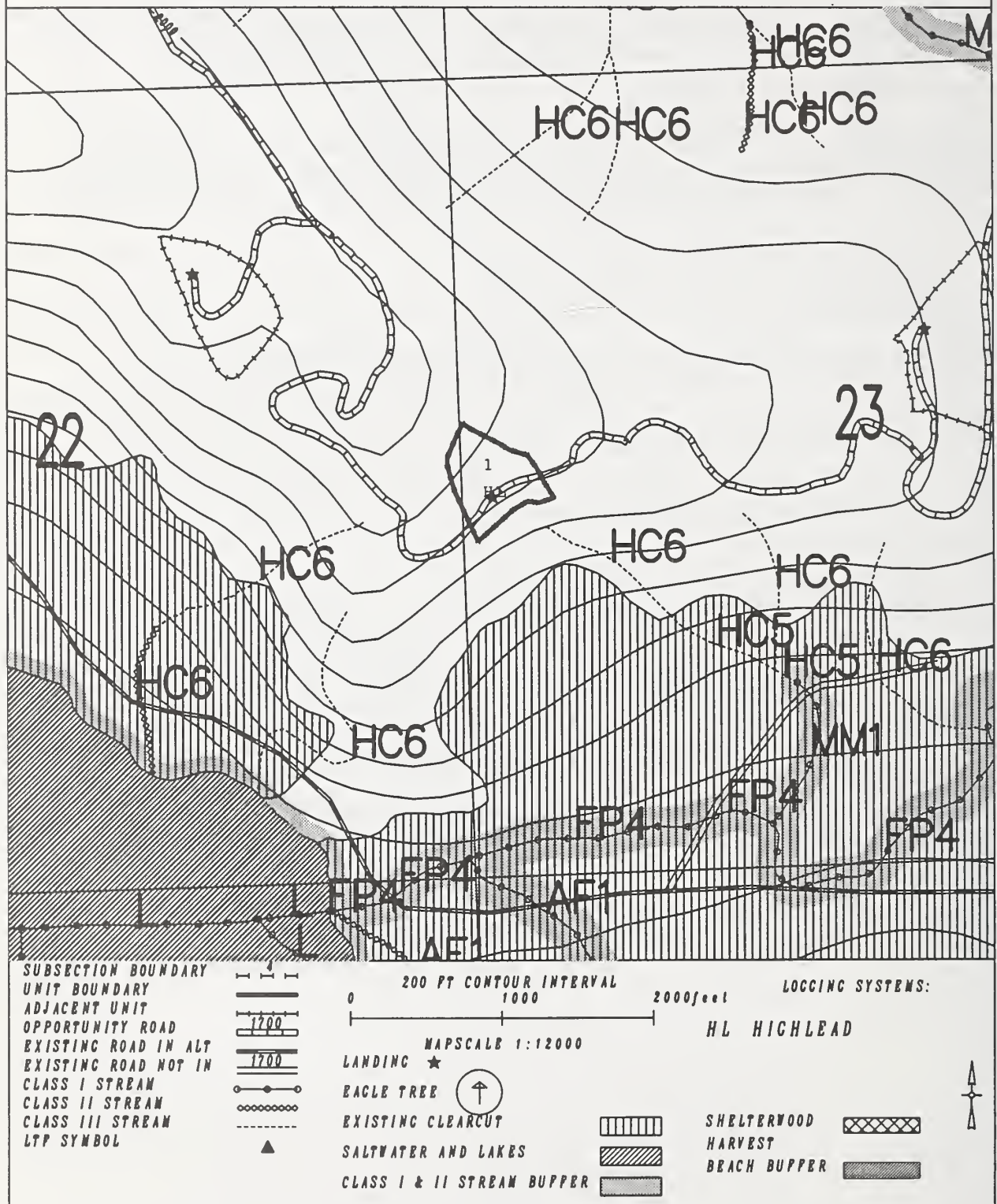
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7064

PLANNED HARVEST UNIT MAP

ACRES: 7 VOLUME: 175 MBP QUAD(s): KTND5 QUARTER QUAD(s): SES
 PHOTO NUM.: 1279-56 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7065</u>	No. Settings <u>2</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>13</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>385</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WHS</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-56</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 10 acres VC5 0 acres VC6 0 acres VC7 3 acres
Elevation breakdown: 0-800 ft. 3 acres 800-1200 ft. 10 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 1 acres Medium 0 acres High 12 acres Very High 0 acres
Cedar 0 Hemlock 0 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit contains 9 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 1 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

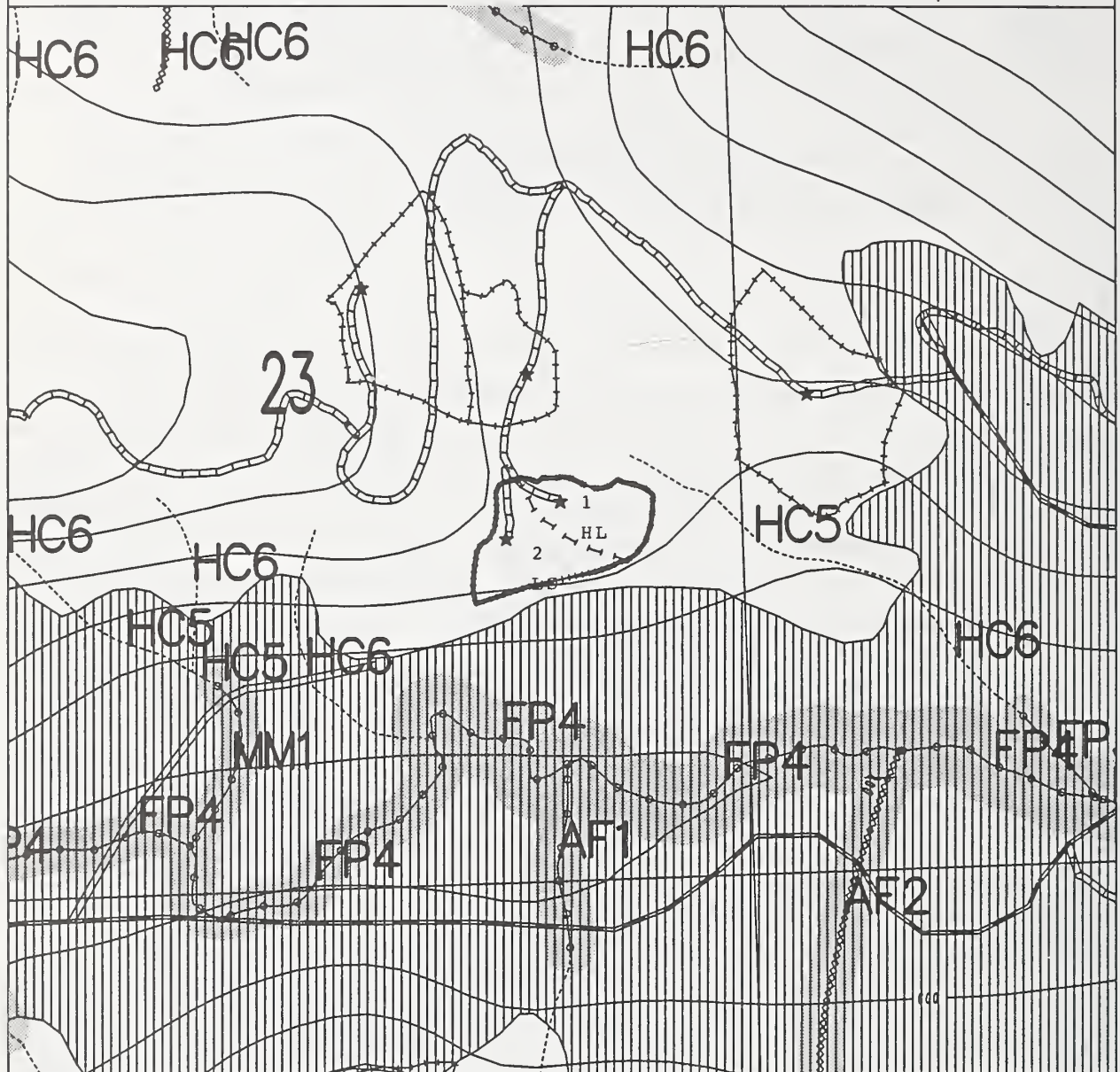
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7065

PLANNED HARVEST UNIT MAP

ACRES: 13 VOLUME: 385 MBP QUAD(s): KTND5 QUARTER QUAD(s): SES
 PHOTO NUM.: 1279-56 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 EAGLE TREE (↑)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HL HIGH LEAD
 LS LIVE SKYLINE

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 29, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7066</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>21</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>582</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WHS</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-85</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 12 acres VC5 9 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 8 acres 800-1200 ft. 13 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 13 acres High 8 acres Very High 0 acres
Cedar 0 Hemlock 21 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect South

SOILS

This unit has 21 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

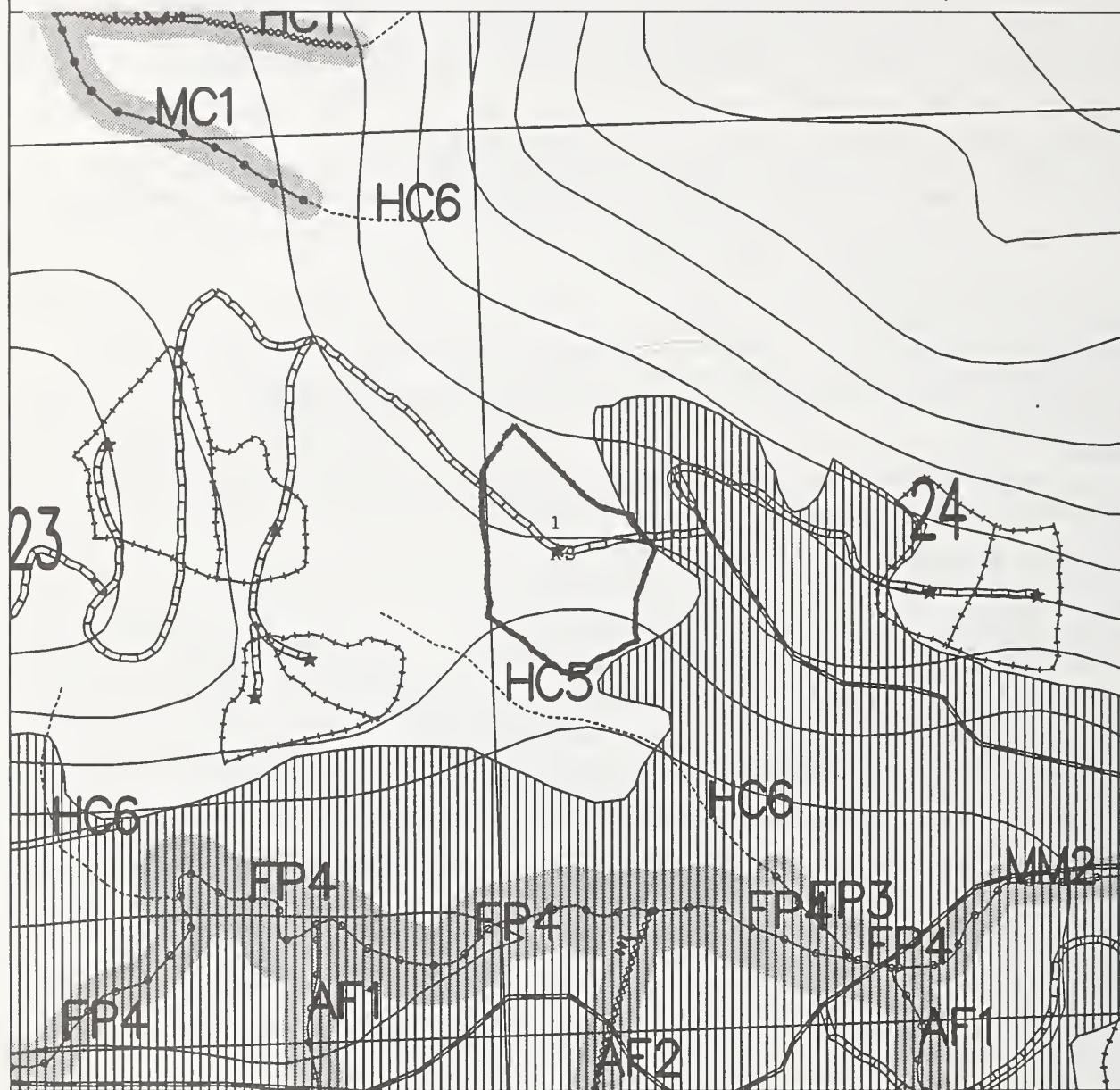
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7066

PLANNED HARVEST UNIT MAP

ACRES: 21 VOLUME: 582 MBP QUAD(s): KTND5 QUARTER QUAD(s): SES
 PHOTO NUM.: 1279-85 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following
 intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE



SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7067</u>	No. Settings <u>2</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>18</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>566</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WHS</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-85</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 18 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 11 acres 1200-1500 ft. 7 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 3 acres High 15 acres Very High 0 acres
Cedar 0 Hemlock 0 Mixed 18 Percent Seen 0 Percent Unseen 100 Aspect South

SOILS

This unit has 18 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 1 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

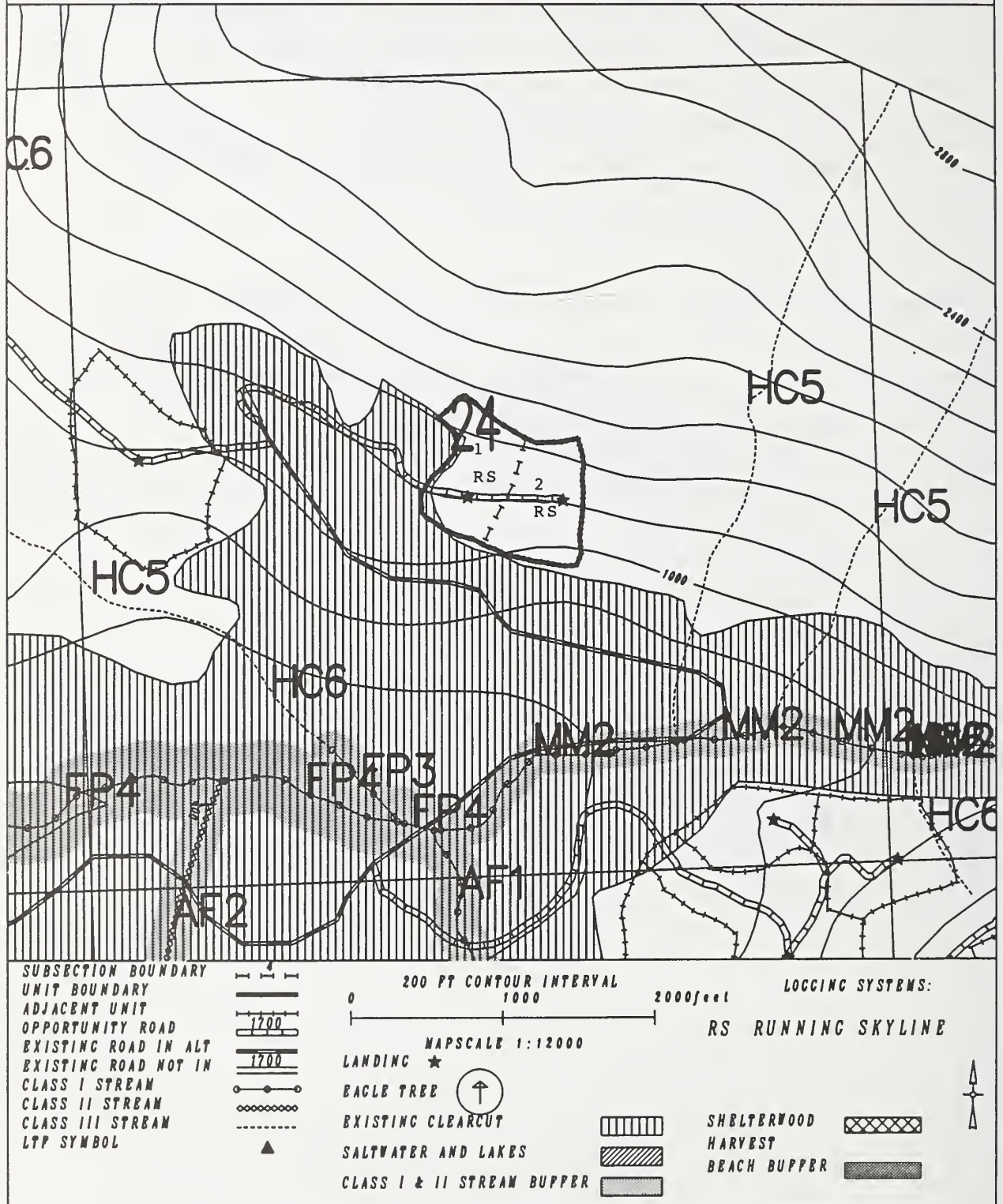
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7067

PLANNED HARVEST UNIT MAP

ACRES: 18 VOLUME: 566 MBP QUAD(s): KTND5 QUARTER QUAD(s): SES
 PHOTO NUM.: 1279-85 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7068</u>	No. Settings <u>3</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>26</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>736</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CCD</u>
Logging methods <u>SL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-104</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 14 acres VC5 11 acres VC6 1 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 24 acres over 1500 ft. 2 acres
Mass movement index: Low 0 acres Medium 5 acres High 21 acres Very High 0 acres
Cedar 0 Hemlock 15 Mixed 11 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 26 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 11 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 8 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

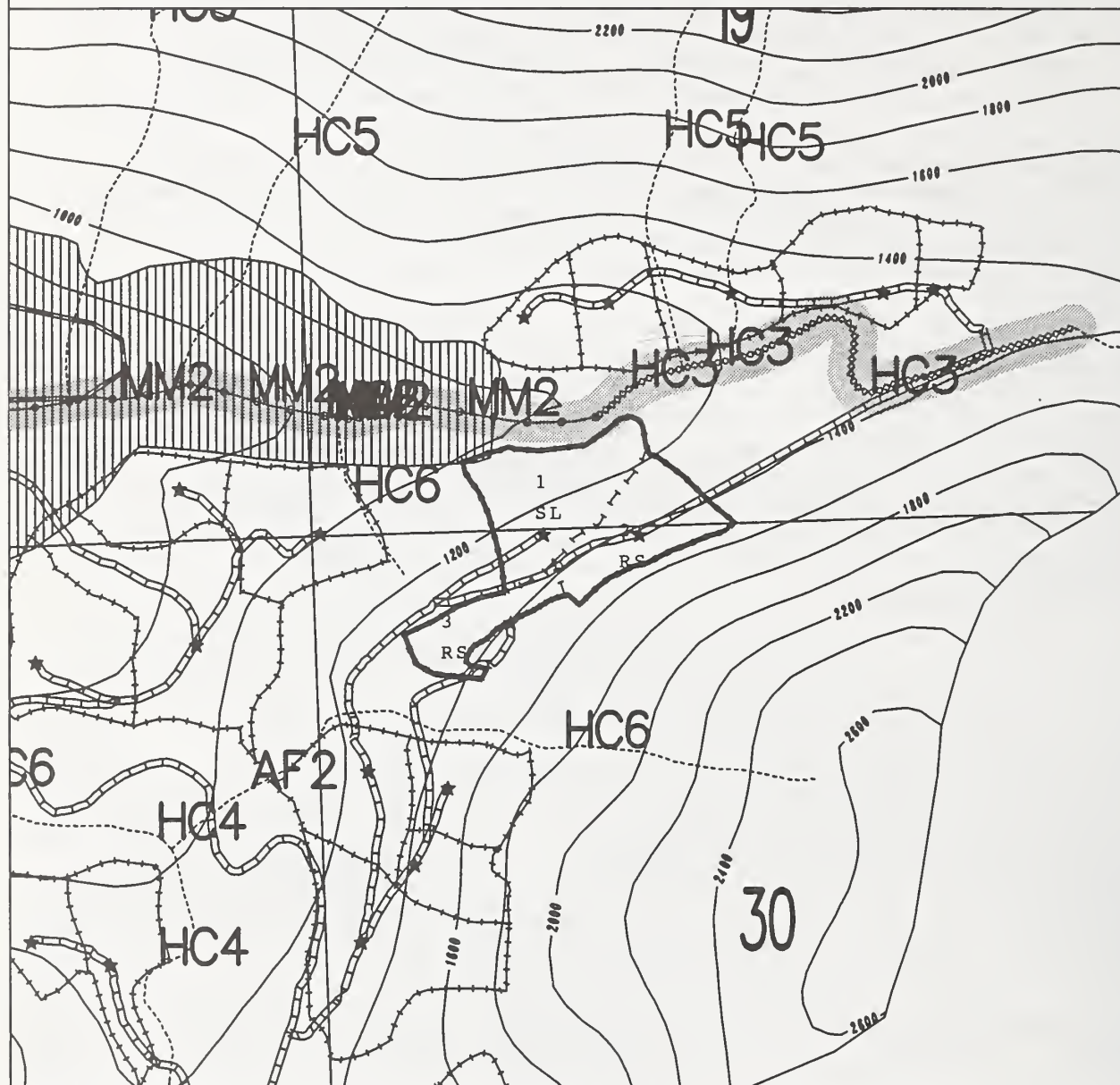
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7068

PLANNED HARVEST UNIT MAP

ACRES: 26 VOLUME: 736 MBP QUAD(s): KTND5 QUARTER QUAD(s): SES
 PHOTO NUM.: 1279-104 LANDNET INFO TOWNSHIP 70S RANGE 92E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

SL SLACKLINE

RS RUNNING SKYLINE

SHELTERWOOD

HARVEST

BEACH BUFFER



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7069</u>	No. Settings <u>3</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>17</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>483</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CMM</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>No Phot</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 8 acres VC5 9 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 1 acres 800-1200 ft. 0 acres 1200-1500 ft. 11 acres over 1500 ft. 5 acres
Mass movement index: Low 6 acres Medium 0 acres High 11 acres Very High 0 acres
Cedar 0 Hemlock 8 Mixed 8 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has 16 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 8 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

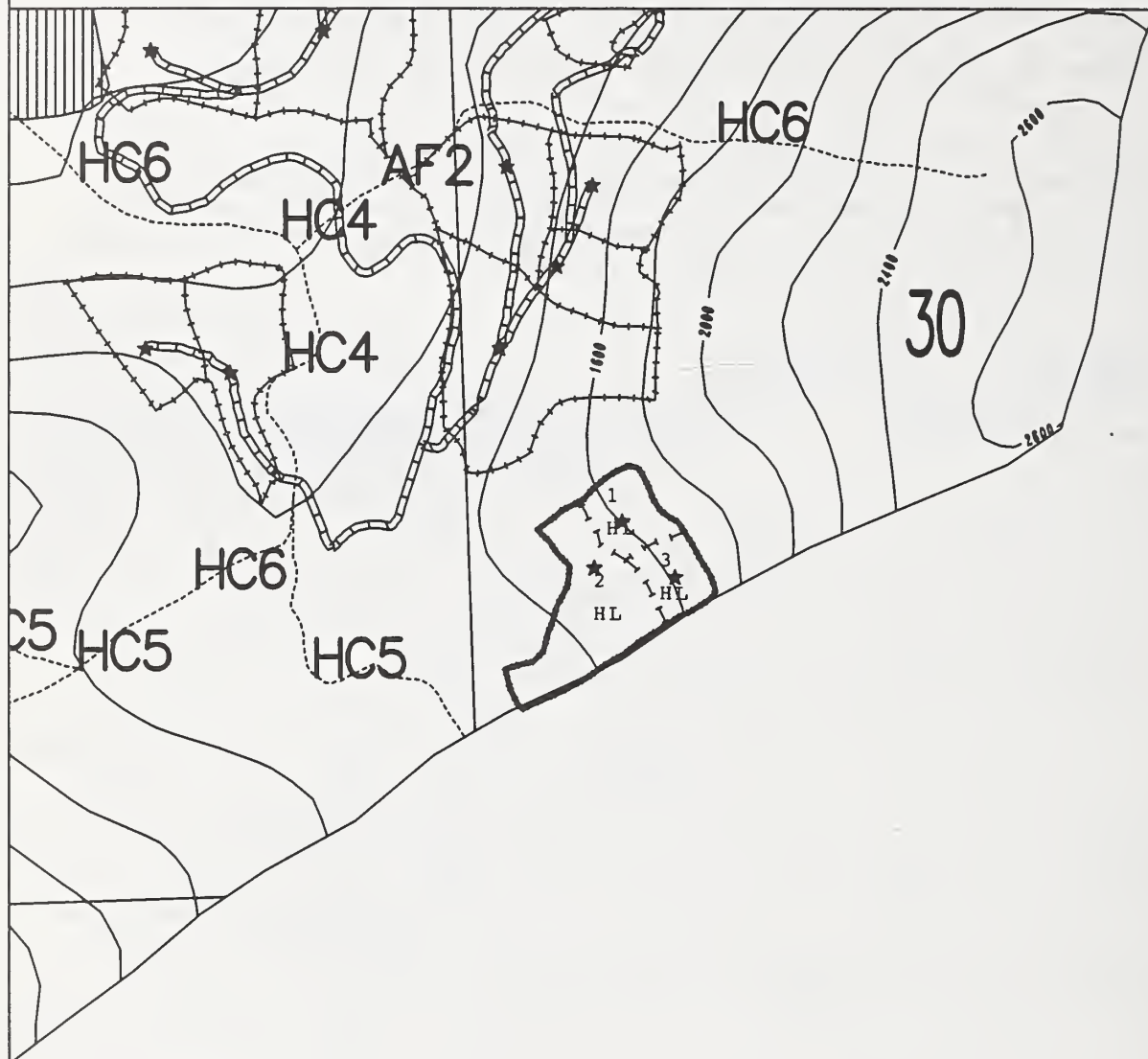
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7069

PLANNED HARVEST UNIT MAP

ACRES: 17 VOLUME: 483 MBP QUAD(s): KTND5 QUARTER QUAD(s): SES
 PHOTO NUM.: No Photo LANDNET INFO TOWNSHIP 70S RANGE 92E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (⊕)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGH LEAD



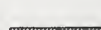
SHELTERWOOD



HARVEST



BEACH BUFFER



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7070</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>50</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1568</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WHS</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-57</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 50 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 22 acres 1200-1500 ft. 21 acres over 1500 ft. 7 acres
Mass movement index: Low 0 acres Medium 0 acres High 50 acres Very High 0 acres
Cedar 0 Hemlock 0 Mixed 50 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 50 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 49 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

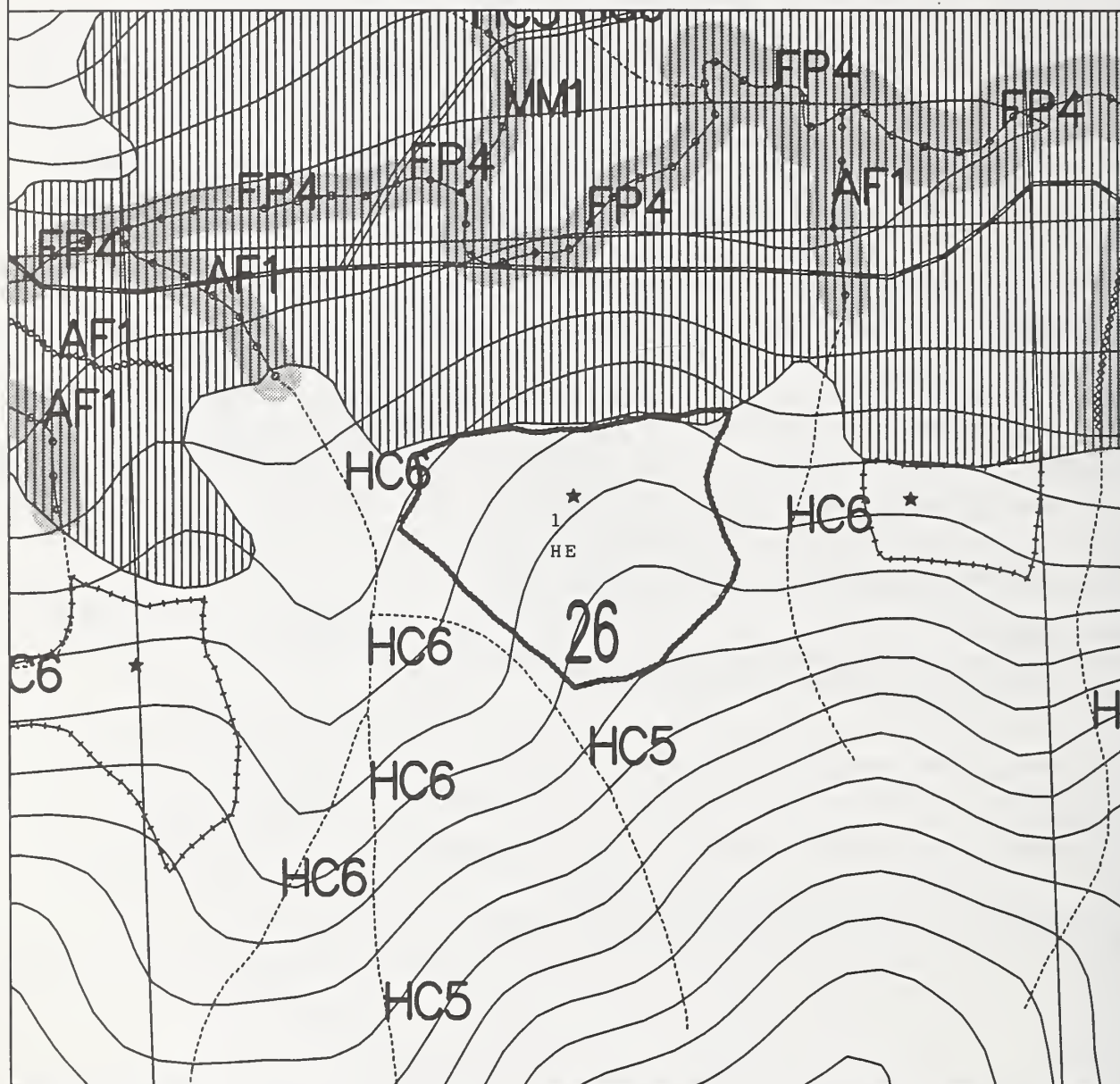
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7070

PLANNED HARVEST UNIT MAP

ACRES: 50 VOLUME: 1568 MBP QUAD(s): KTND5 QUARTER QUAD(s): SES
 PHOTO NUM.: 1279-57 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HE HELICOPTER

SHELTERWOOD

HARVEST

BEACH BUFFER



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7071</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>30</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>941</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WHS</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-57</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 30 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 10 acres 1200-1500 ft. 14 acres over 1500 ft. 6 acres
Mass movement index: Low 0 acres Medium 0 acres High 30 acres Very High 0 acres
Cedar 0 Hemlock 30 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 30 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 29 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 3 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

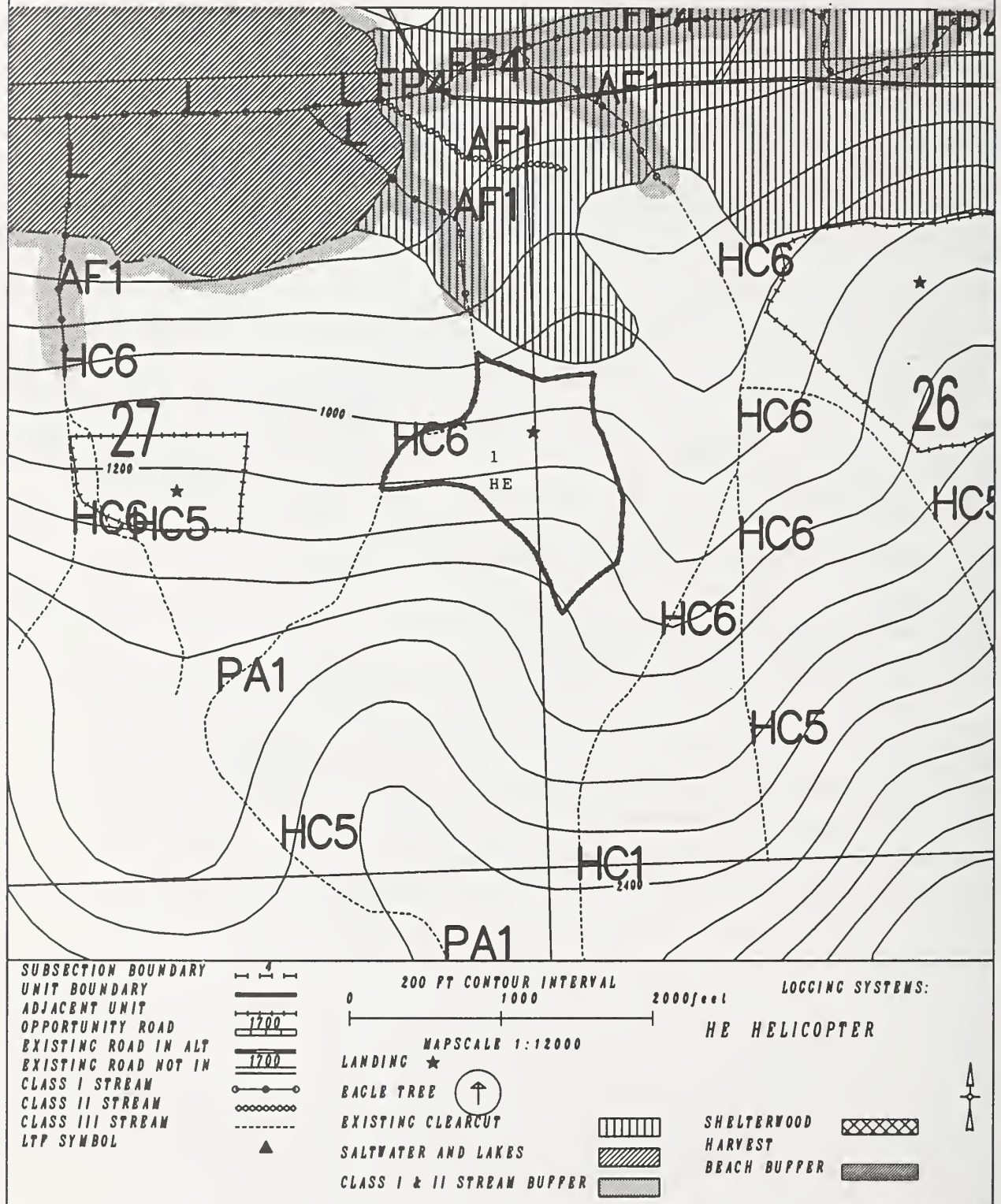
There are no geological mitigation measures anticipated for this unit.

VCU: 7370 UNIT NUMBER: 7071

PLANNED HARVEST UNIT MAP

ACRES: 30 VOLUME: 941 MBP QUAD(s): KTND5 QUARTER QUAD(s): SES
 PHOTO NUM.: 1279-57 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7072</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>15</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>471</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WHS</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-57</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 15 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 3 acres 1200-1500 ft. 10 acres over 1500 ft. 2 acres
Mass movement index: Low 0 acres Medium 0 acres High 15 acres Very High 0 acres
Cedar 0 Hemlock 15 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 15 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 14 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

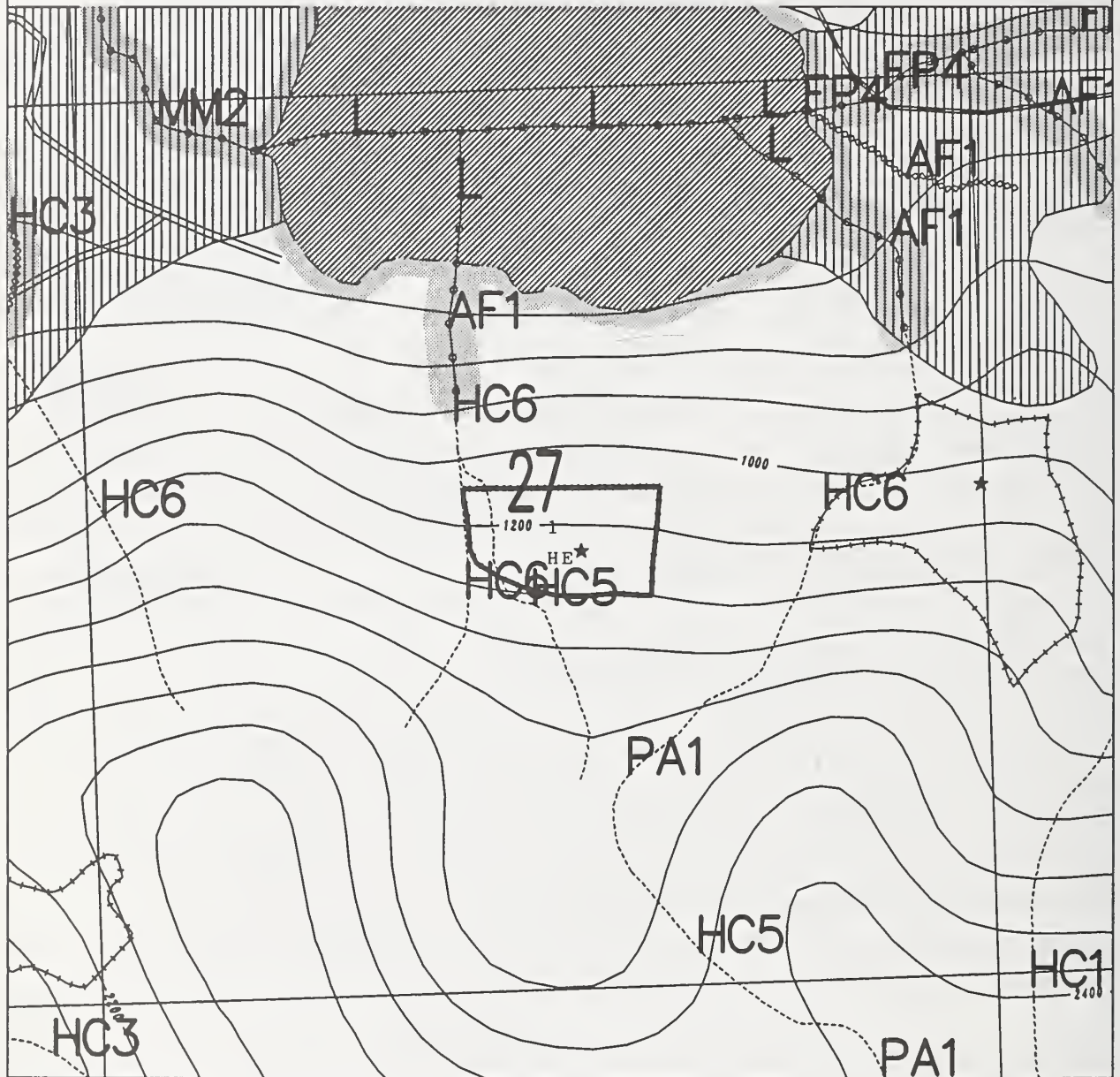
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7072

PLANNED HARVEST UNIT MAP

ACRES: 15 VOLUME: 471 MBF QUAD(s): KTND5 QUARTER QUAD(s): SES
 PHOTO NUM.: 1279-57 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 EAGLE TREE (upward arrow)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HE HELICOPTER

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7073</u>	No. Settings <u>5</u>	Alternatives considered <u>5</u>	VQO <u>M</u>
Planned acres <u>63</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1950</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WHS</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-34</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 4 acres VC5 59 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 16 acres 1200-1500 ft. 35 acres over 1500 ft. 12 acres
Mass movement index: Low 3 acres Medium 0 acres High 60 acres Very High 0 acres
Cedar 0 Hemlock 56 Mixed 1 Percent Seen 56 Percent Unseen 44 Aspect North

SOILS

This unit has 62 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 7 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 48 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 3 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

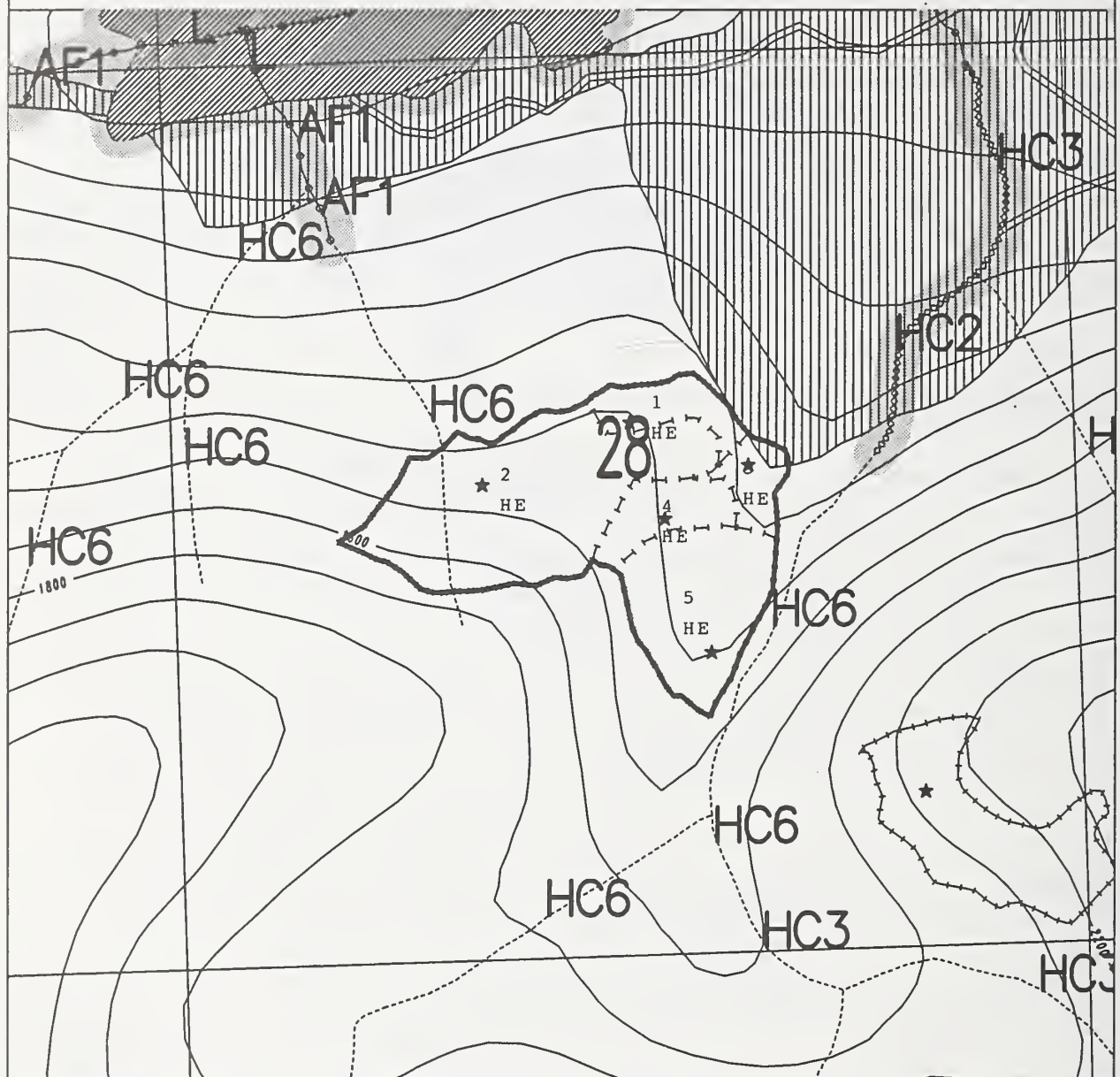
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7073

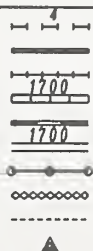
PLANNED HARVEST UNIT MAP

ACRES: 63 VOLUME: 1950 MBP QUAD(s): KTND5 QUARTER QUAD(s): SES
 PHOTO NUM.: 1279-34 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★
 EAGLE TREE (up arrow)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HE HELICOPTER

SHELTERWOOD
 HARVEST
 BEACH BUFFER



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7074</u>	No. Settings <u>5</u>	Alternatives considered <u>5</u>	VQO <u>M</u>
Planned acres <u>70</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2048</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WHS</u>
Logging methods <u>RS LS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-109</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 38 acres VC5 32 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 20 acres over 1500 ft. 59 acres
Mass movement index: Low 1 acres Medium 0 acres High 69 acres Very High 0 acres
Cedar 0 Hemlock 70 Mixed 0 Percent Seen 1 Percent Unseen 99 Aspect North

SOILS

This unit has 70 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 44 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7075</u> No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>26</u>	Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1009</u>	Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CCD</u>
Logging methods <u>HL</u>	WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>	1981 Photo <u>1179-188</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 6 acres VC6 20 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 5 acres 1200-1500 ft. 19 acres over 1500 ft. 2 acres
Mass movement index: Low 1 acres Medium 0 acres High 25 acres Very High 0 acres
Cedar 0 Hemlock 24 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 26 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit contains 13 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 11 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

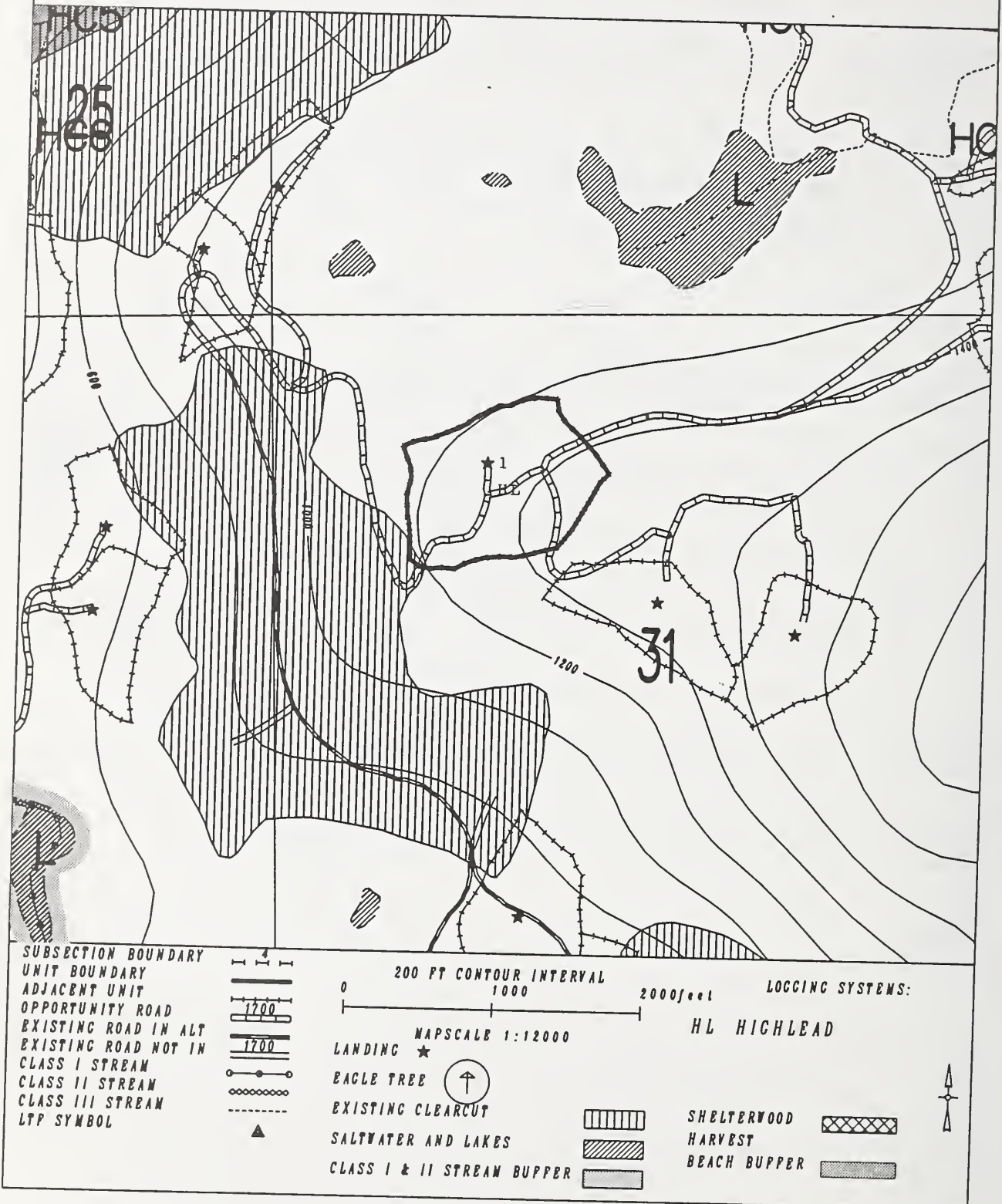
GEOLOGY

There are no geological mitigation measures anticipated for this unit.

PLANNED HARVEST UNIT MAP

ACRES: 26 VOLUME: 1009 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
PHOTO NUM.: 1179-18B LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7076</u>	No. Settings <u>2</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>20</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>821</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CCD</u>
Logging methods <u>HL RS LS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-188</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 0 acres VC6 20 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 20 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 2 acres Medium 0 acres High 18 acres Very High 0 acres
Cedar 0 Hemlock 20 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 20 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 18 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, of these passes 1 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the _____ viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7076

PLANNED HARVEST UNIT MAP

ACRES: 20VOLUME: 821

MBF

QUAD(s): KTND5QUARTER QUAD(s): SWS

PHOTO NUM.:

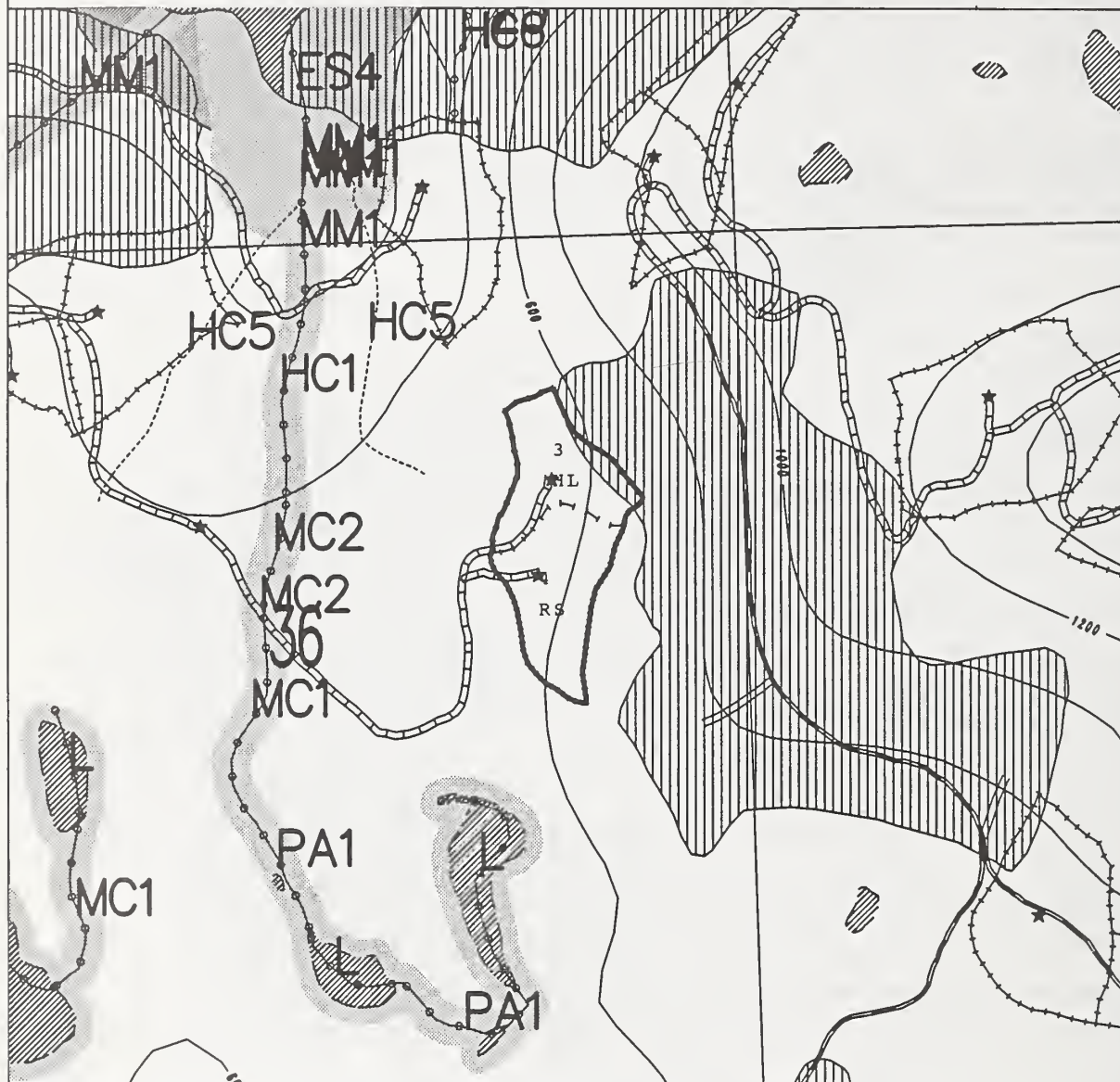
1179-18

LANDNET INFO

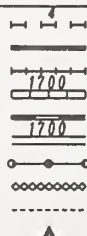
TOWNSHIP

70SRANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet
MAP SCALE 1:12000
LANDING ★
EAGLE TREE (upward arrow)
EXISTING CLEARCUT
SALTWATER AND LAKES
CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGH LEAD
RS RUNNING SKYLINE



SHELTERWOOD
HARVEST
BEACH BUFFER



July 29, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7077</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>15</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>471</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WDC</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-188</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 15 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 15 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 3 acres Medium 0 acres High 12 acres Very High 0 acres
Cedar 0 Hemlock 0 Mixed 15 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 15 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 1 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are 3 streams which have fish passage requirements, of these passes 3 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nest site is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the _____ viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

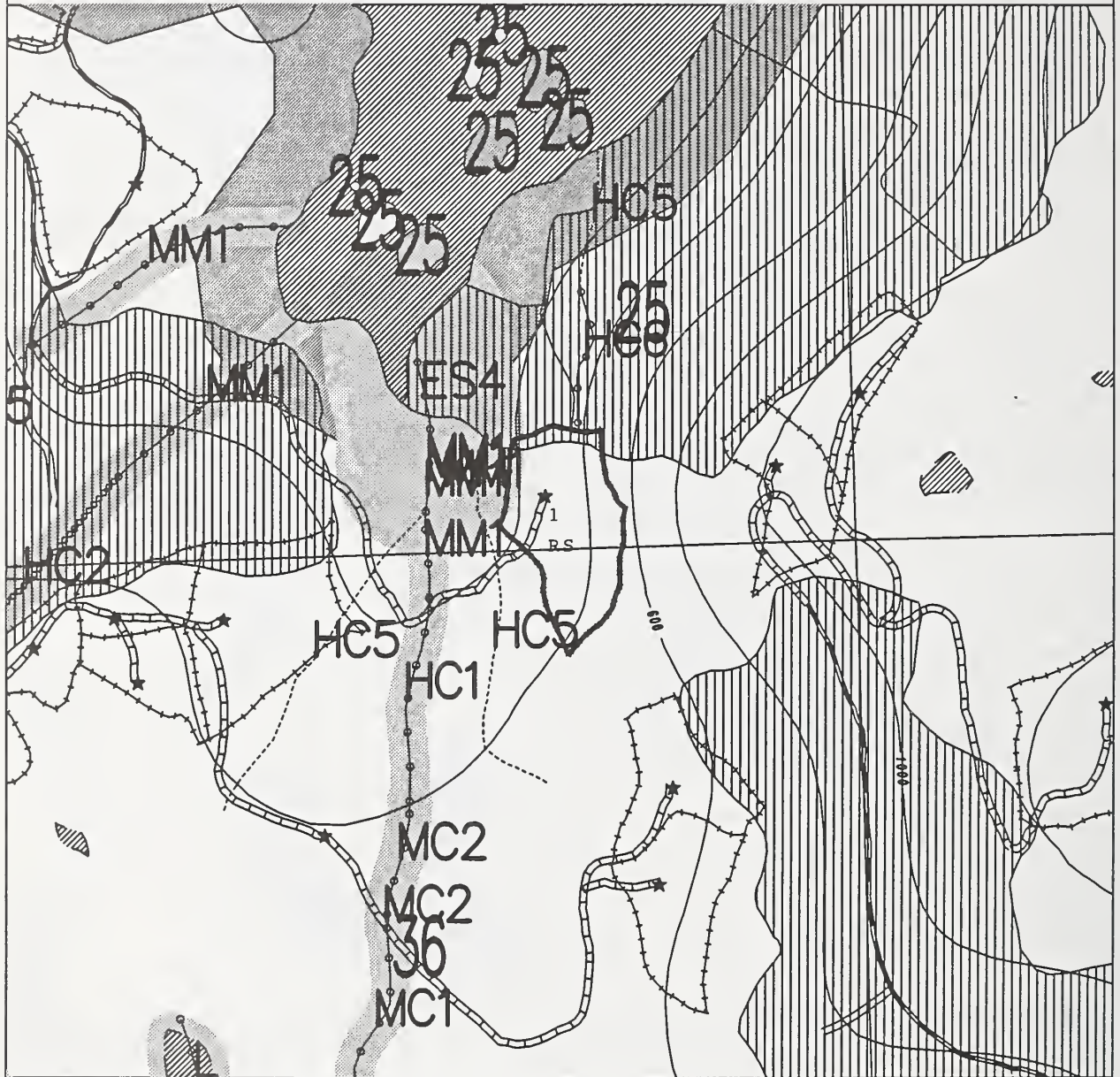
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7077

PLANNED HARVEST UNIT MAP

ACRES: 15 VOLUME: 471 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-188 LANDNET INFO TOWNSHIP 70S RANGE 90R

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 EAGLE TREE (↑)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE

SHELTERWOOD
 HARVEST
 BEACH BUFFER

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7078</u> No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>16</u>	Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>407</u>	Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CMC</u>
Logging methods <u>HL</u>	WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>	1981 Photo <u>1179-159</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 15 acres VC5 1 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 16 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 16 acres Medium 0 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 15 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 15 acres that may require partial or full suspension (BMP 13.9)
This unit contains 15 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nestsite is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

ACRES: 16 VOLUME: 407 MBF QUAD(s): KTND5 QUARTER QUAD(s): SWS
PHOTO NUM.: 1179-159 LANDNET INFO TOWNSHIP 70S RANGE 90E

HL HIGHLEAD

CLASS I & II STREAM BUFFER

SHELTERWOOD
HARVEST
BEACH BUPPE

July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7079</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>PR</u>
Planned acres <u>6</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>188</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WHS</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-15</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 6 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 6 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 6 acres Medium 0 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 4 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect East

SOILS

This unit has 4 acres that may require partial or full suspension (BMP 13.9)

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nestsite is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

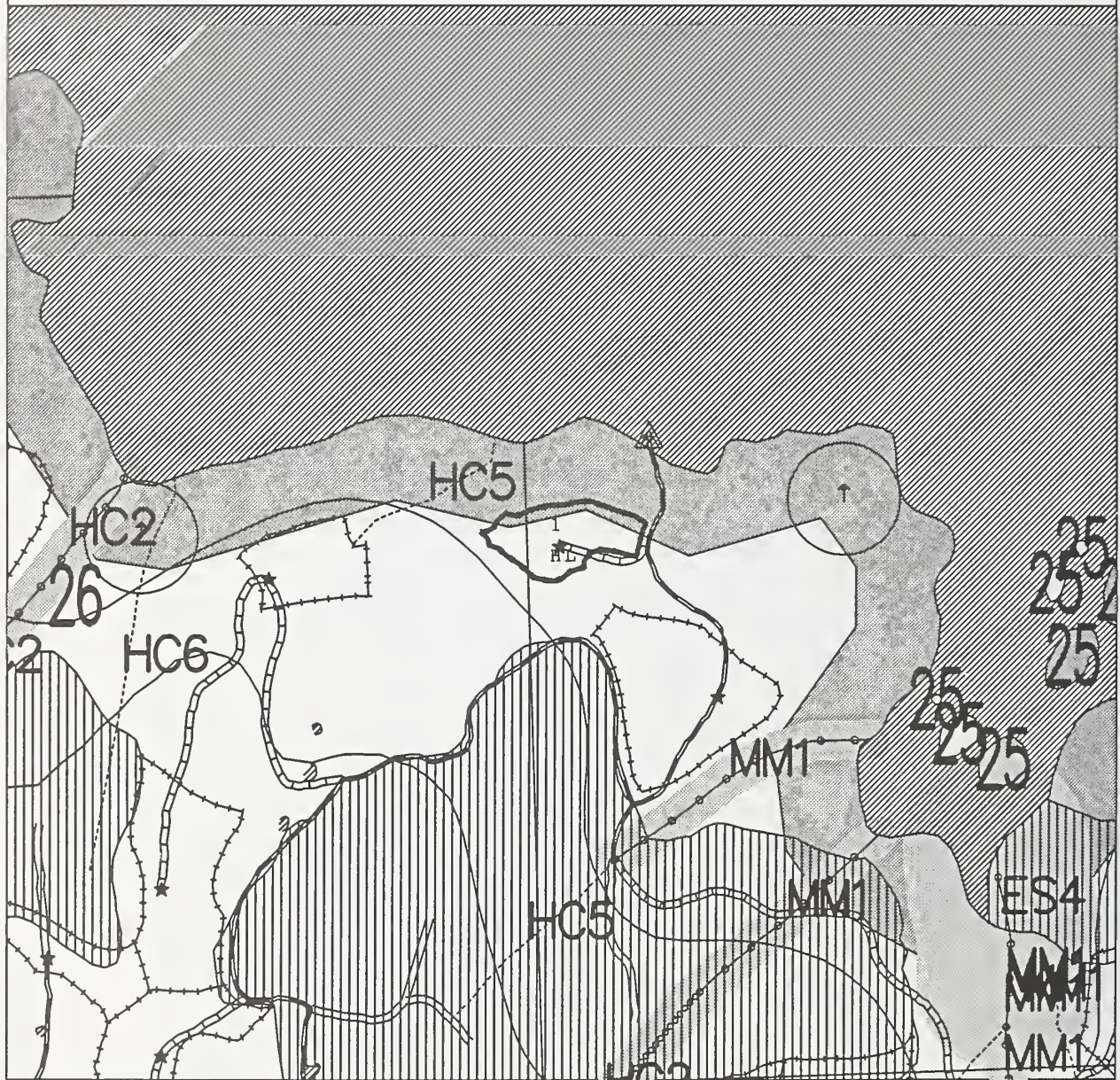
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7079

PLANNED HARVEST UNIT MAP

ACRES: 6 VOLUME: 188 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-15 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

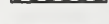
HL HIGH LEAD



SHELTERWOOD

HARVEST

BEACH BUFFER



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7080</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>PR</u>
Planned acres <u>6</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>188</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CCD</u>
Logging methods <u>HL SL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-159</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 6 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 6 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 3 acres Medium 3 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 6 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has 6 acres that may require partial or full suspension (BMP 13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of Bald Eagle nest site. If nest site is active follow the intra-agency agreement agreement with U.S. Fish & Wildlife.

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has adopted VQO of PR as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.

There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY


There are no geological mitigation measures anticipated for this unit.

ACRES: 6 VOLUME: 188 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
PHOTO NUM.: 1179-15 LANDNET INFO TOWNSHIP 70S RANGE 90E

A detailed map of the study area, showing the coastline of the Gulf of Mexico and the surrounding land. The map includes several labeled locations: HC2, HC5, HC6, MC2, MM1, HL, and 26. A shaded area represents the study area, and a dashed line indicates the location of the study area. The map also shows the location of the study area relative to the coastline and the Gulf of Mexico.

CLASS I & II STREAM BUFFER

110



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR WSPA DEIS

Unit <u>7081</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>11</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>275</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CMM</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-16</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 11 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 11 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 11 acres Medium 0 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 10 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect East

SOILS

This unit has 11 acres that may require partial or full suspension (BMP 13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

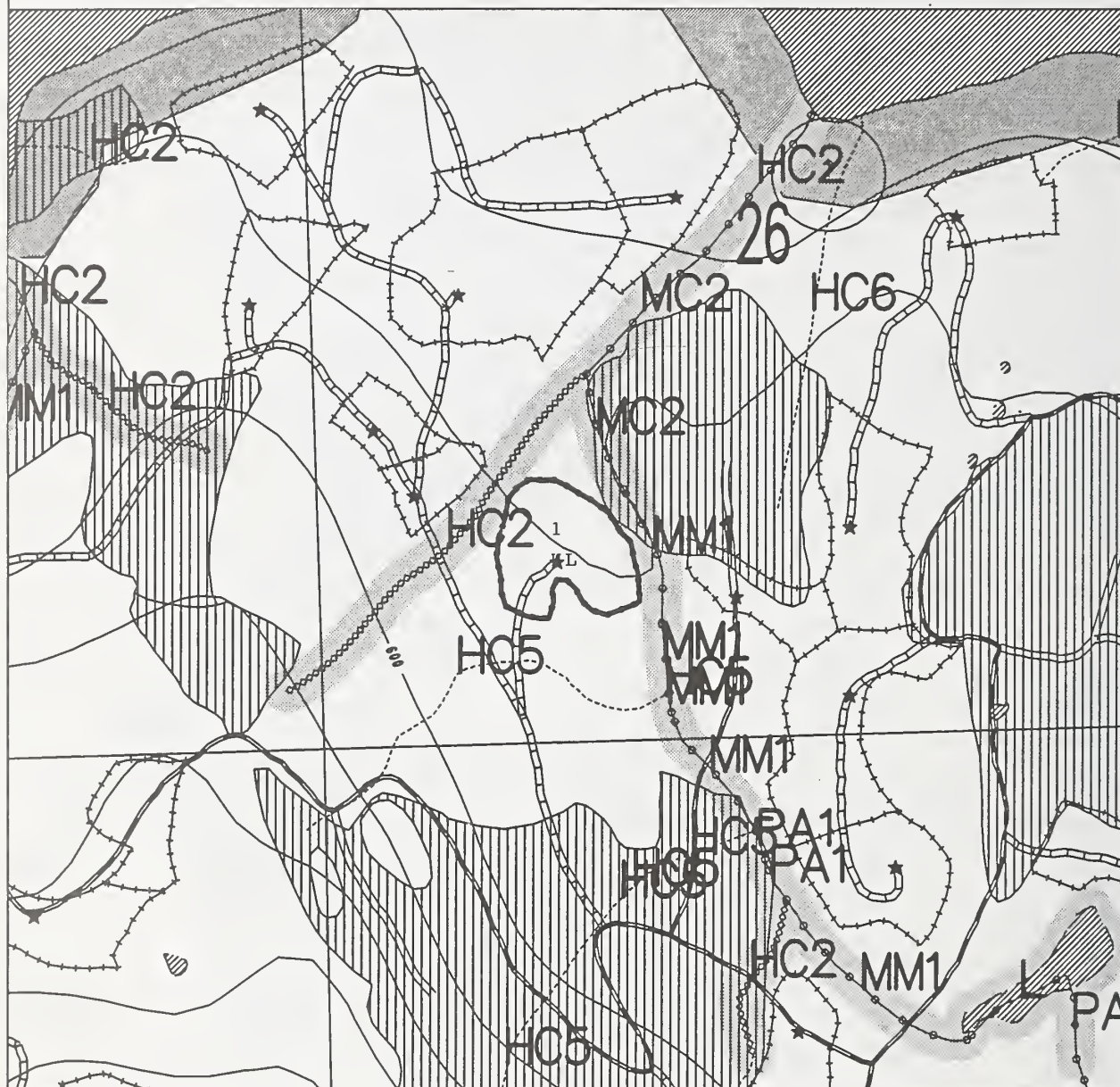
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7081

PLANNED HARVEST UNIT MAP

ACRES: 11 VOLUME: 275 MBF QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-16 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



SHELTERWOOD
 HARVEST
 BEACH BUFFER



LOGGING SYSTEMS:

HL HIGHLEAD



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7082</u>	No. Settings <u>2</u>	Alternatives considered <u>5</u>	VQO <u>M</u>
Planned acres <u>8</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>200</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WDC</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-13</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 8 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 8 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 1 acres Medium 1 acres High 6 acres Very High 0 acres
Cedar 0 Hemlock 7 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has 8 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the HEAD OF NEETS BAY viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

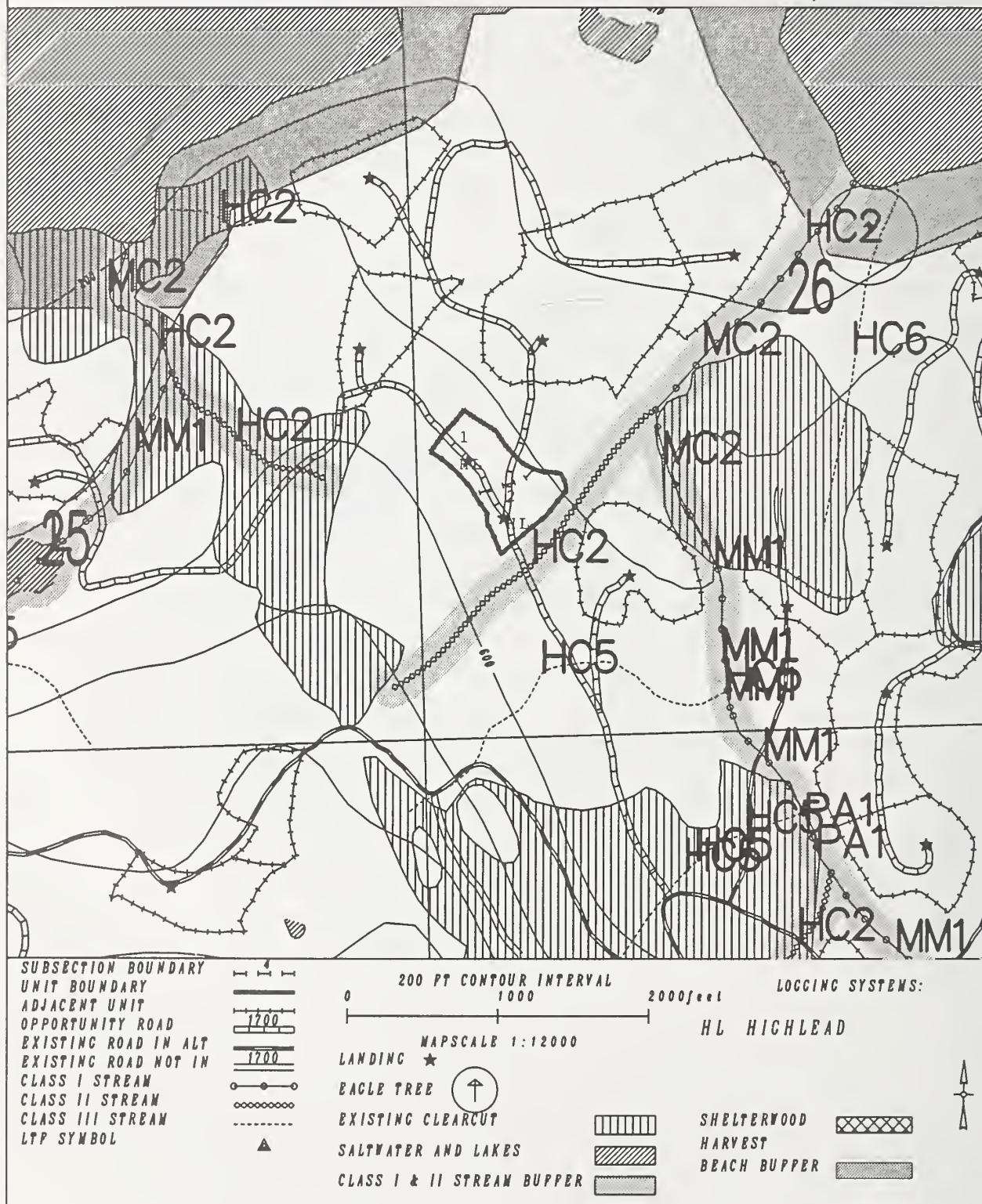
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7082

PLANNED HARVEST UNIT MAP

ACRES: 8 VOLUME: 200 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-13 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7083</u>	No. Settings <u>1</u>	Alternatives considered <u>5</u>	VQO <u>M</u>
Planned acres <u>9</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>224</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WDC</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-13</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 9 acres VC5 0 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 9 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 4 acres High 5 acres Very High 0 acres
Cedar 0 Hemlock 8 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has 9 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of
Bald Eagle nest site. If nestsite is active follow the intra-agency agreement
agreement with U.S. Fish & Wildlife.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the HEAD OF NEETS BAY viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7083

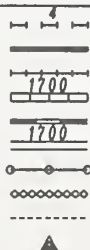
PLANNED HARVEST UNIT MAP

ACRES: 9 VOLUME: 224 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-13 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 EAGLE TREE (↑)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

RS RUNNING SKYLINE

SHELTERWOOD
 HARVEST
 BEACH BUFFER



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7084</u>	No. Settings <u>2</u>	Alternatives considered <u>5</u>	VQO <u>MM</u>
Planned acres <u>42</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1253</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WDC</u>
Logging methods <u>HL</u> <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-13</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 10 acres VC5 32 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 42 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 42 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 42 Mixed 0 Percent Seen 88 Percent Unseen 12 Aspect East

SOILS

This unit has 1 acres that may require partial or full suspension (BMP 13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of
Bald Eagle nest site. If nest site is active follow the intra-agency agreement
agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the _____ viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

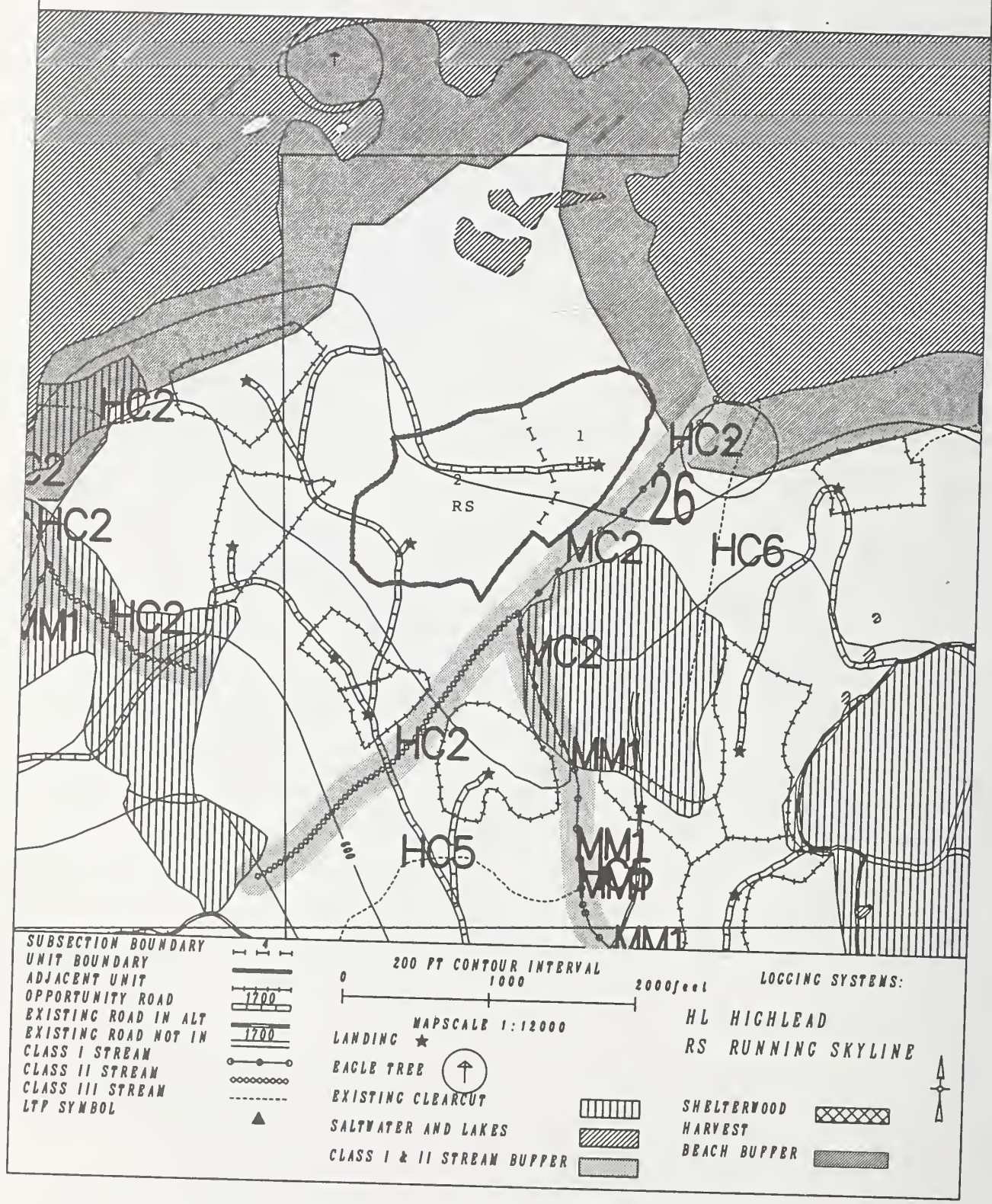
VCU: 7370

UNIT NUMBER: 7084

PLANNED HARVEST UNIT MAP

ACRES: 42 VOLUME: 1253 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
PHOTO NUM.: 1179-13 LANDNET INFO TOWNSHIP 70S RANGE 90P

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7085</u>	No. Settings <u>4</u>	Alternatives considered <u>4</u>	VQO <u>M</u>
Planned acres <u>61</u>		Quad <u>KTND5SWN</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2106</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CCD</u>
Logging methods <u>HL SL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-13</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 41 acres VC6 20 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 38 acres 800-1200 ft. 20 acres 1200-1500 ft. 3 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 18 acres High 43 acres Very High 0 acres
Cedar 0 Hemlock 48 Mixed 13 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has 35 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 33 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 9 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.
Potentially very low volume per acre.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

Survey complete, results pending. No known cultural resources found.

GEOLOGY

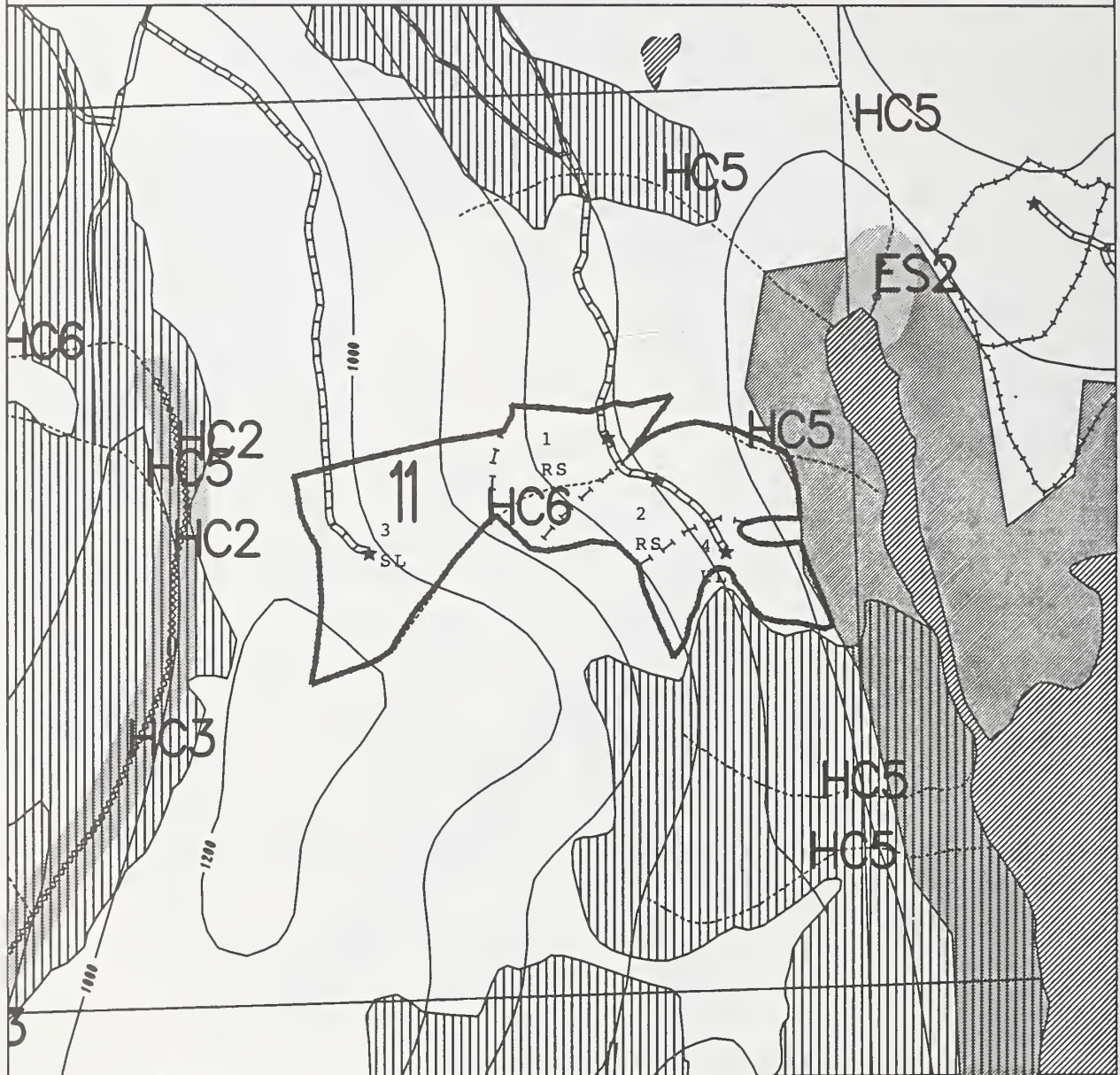
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7085

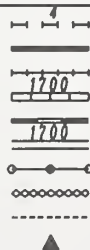
PLANNED HARVEST UNIT MAP

ACRES: 61 VOLUME: 2106 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWN/SWS
 PHOTO NUM.: 1179-15 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 PT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BACLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUPPER

LOGGING SYSTEMS:

RS RUNNING SKYLINE

SL SLACKLINE

HL HIGHLEAD

SHELTERWOOD

HARVEST

BEACH BUPPER



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7086</u> No. Settings <u>1</u>	Alternatives considered <u>4</u>	VQO <u>PR</u>
Planned acres <u>63</u>	Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1976</u>	Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WHM</u>
Logging methods <u>RS</u>	WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>	1981 Photo <u>1179-19</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 63 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 63 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 55 acres High 8 acres Very High 0 acres
Cedar 0 Hemlock 0 Mixed 63 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 8 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 7 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Potentially very low volume per acre.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Maintain adequate distribution of snags by leaving 0.1 acre-sized patches of green trees within the unit for every 10 acres harvested. Snag patches must be compatible with logging system and safe working conditions.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

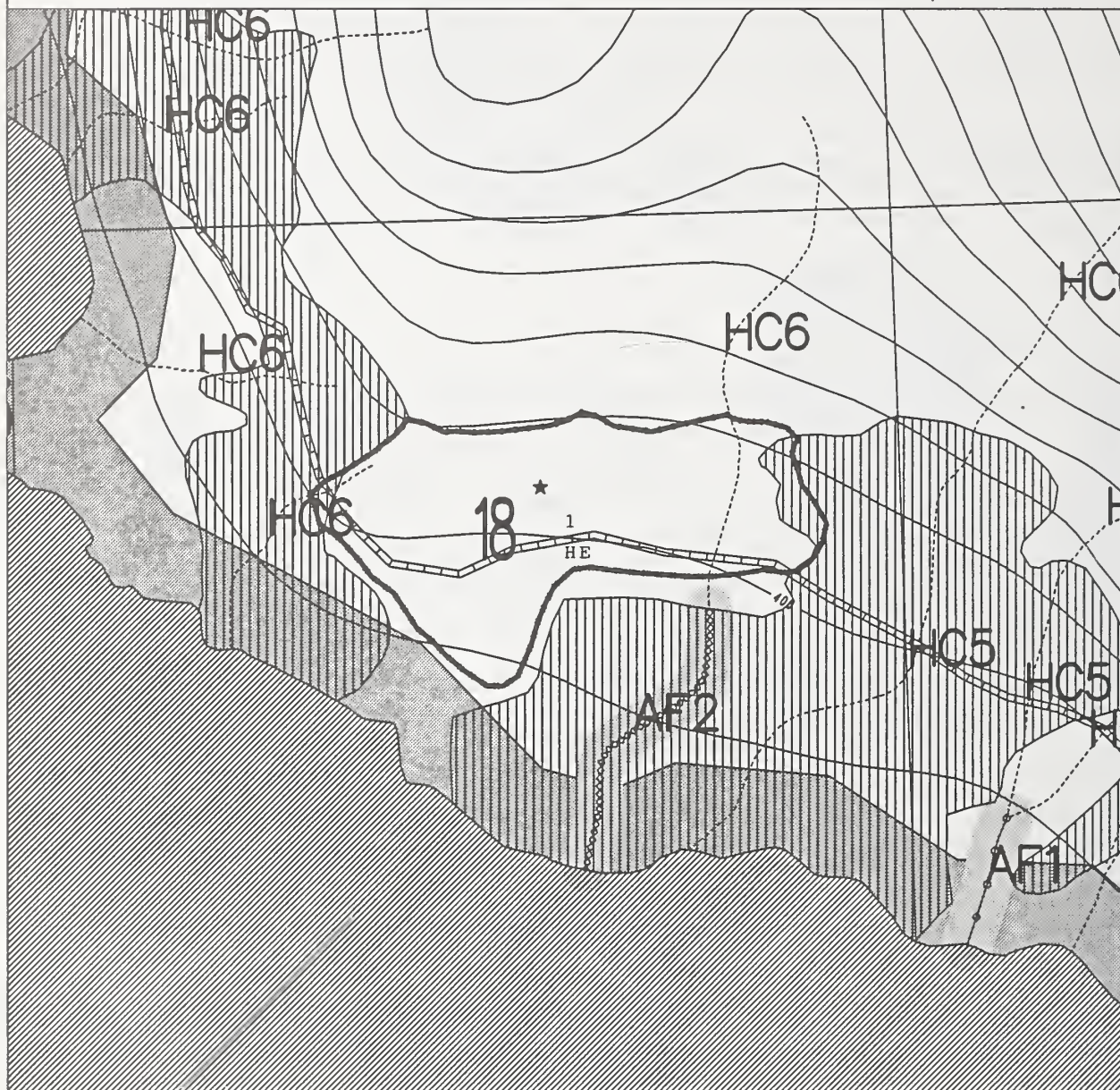
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7086

PLANNED HARVEST UNIT MAP

ACRES: 63 VOLUME: 1976 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-19 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 PT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HE HELICOPTER



SHELTERWOOD

HARVEST

BEACH BUFFER



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7087</u>	No. Settings <u>1</u>	Alternatives considered <u>4</u>	VQO <u>PR</u>
Planned acres <u>19</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>551</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WHM</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-11</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 7 acres VC5 12 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 1 acres 1200-1500 ft. 6 acres over 1500 ft. 12 acres
Mass movement index: Low 0 acres Medium 19 acres High 0 acres Very High 0 acres
Cedar 0 Hemlock 7 Mixed 12 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of PR as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.

There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

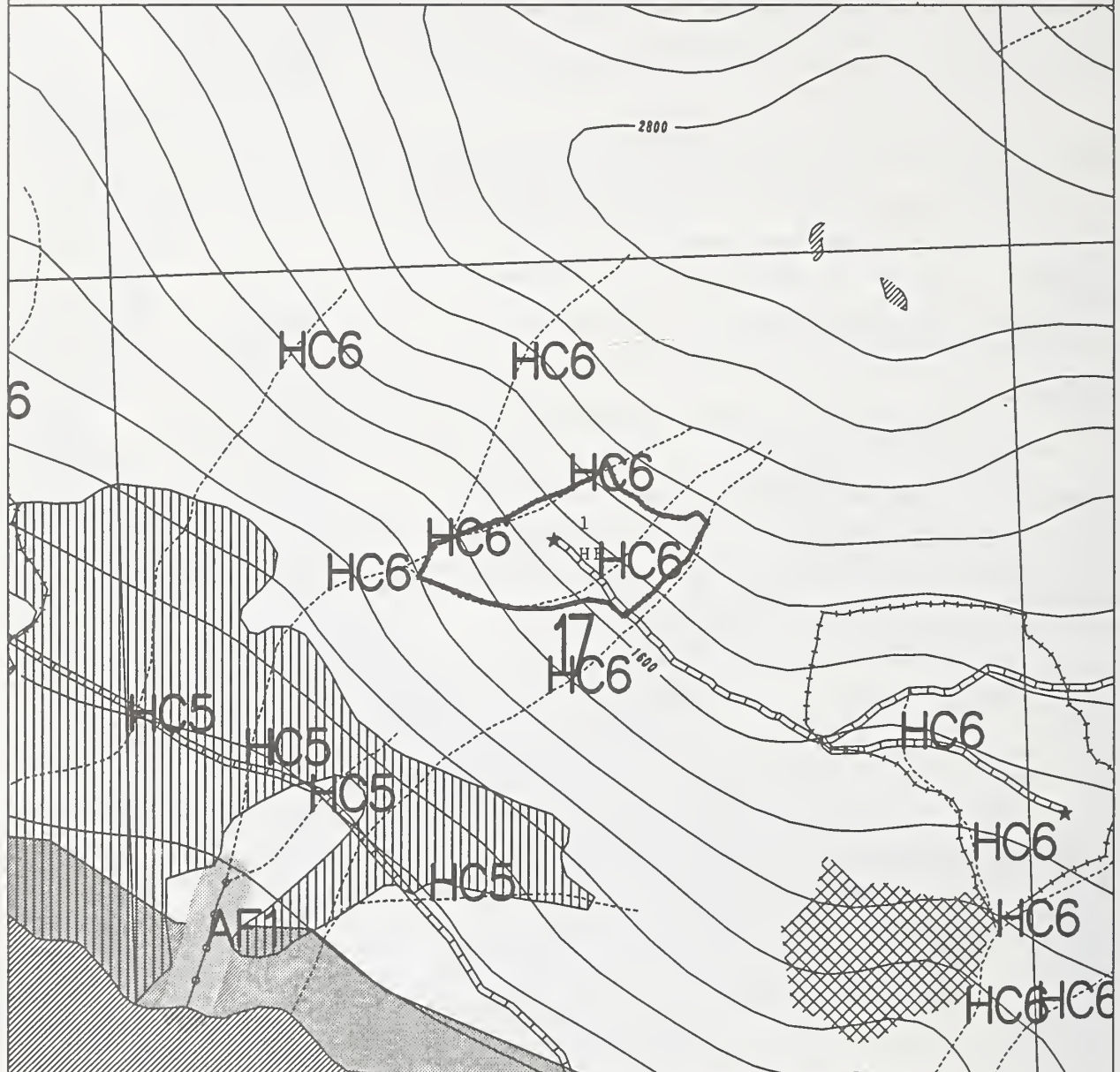
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7087

PLANNED HARVEST UNIT MAP

ACRES: 19 VOLUME: 551 MBP QUAD(s): KTND5 QUARTER QUAD(s): SES
 PHOTO NUM.: 1279-11 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (upward arrow symbol)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:
 HE HELICOPTER

SHELTERWOOD
 HARVEST
 BEACH BUFFER



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7089</u>	No. Settings <u>3</u>	Alternatives considered <u>4</u>	VQO <u>M</u>
Planned acres <u>40</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1102</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CMM</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-36</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 24 acres VC5 16 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 40 acres
Mass movement index: Low 36 acres Medium 0 acres High 4 acres Very High 0 acres
Cedar 0 Hemlock 40 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has 40 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 20 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 2 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7089

PLANNED HARVEST UNIT MAP

ACRES: 40VOLUME: 1102

MBP

QUAD(s): KTND5QUARTER QUAD(s): SES

PHOTO NUM. :

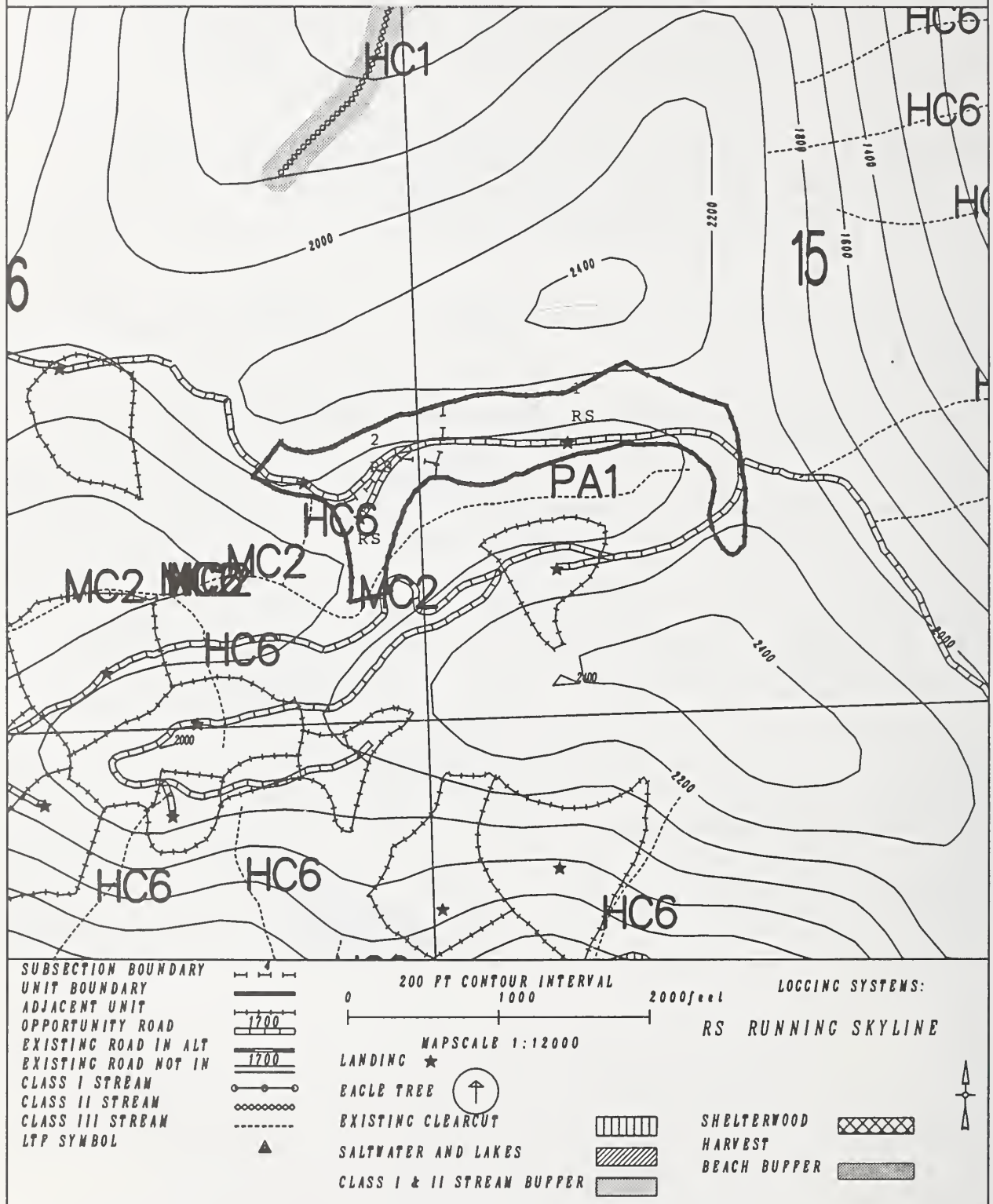
1279-36

LANDNET INFO

TOWNSHIP

70SRANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7090</u>	No. Settings <u>1</u>	Alternatives considered <u>4</u>	VQO <u>M</u>
Planned acres <u>9</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>283</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WHS</u>
Logging methods <u>HL</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-36</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 9 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 9 acres
Mass movement index: Low 0 acres Medium 0 acres High 9 acres Very High 0 acres
Cedar 0 Hemlock 9 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect North

SOILS

This unit has 8 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 8 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

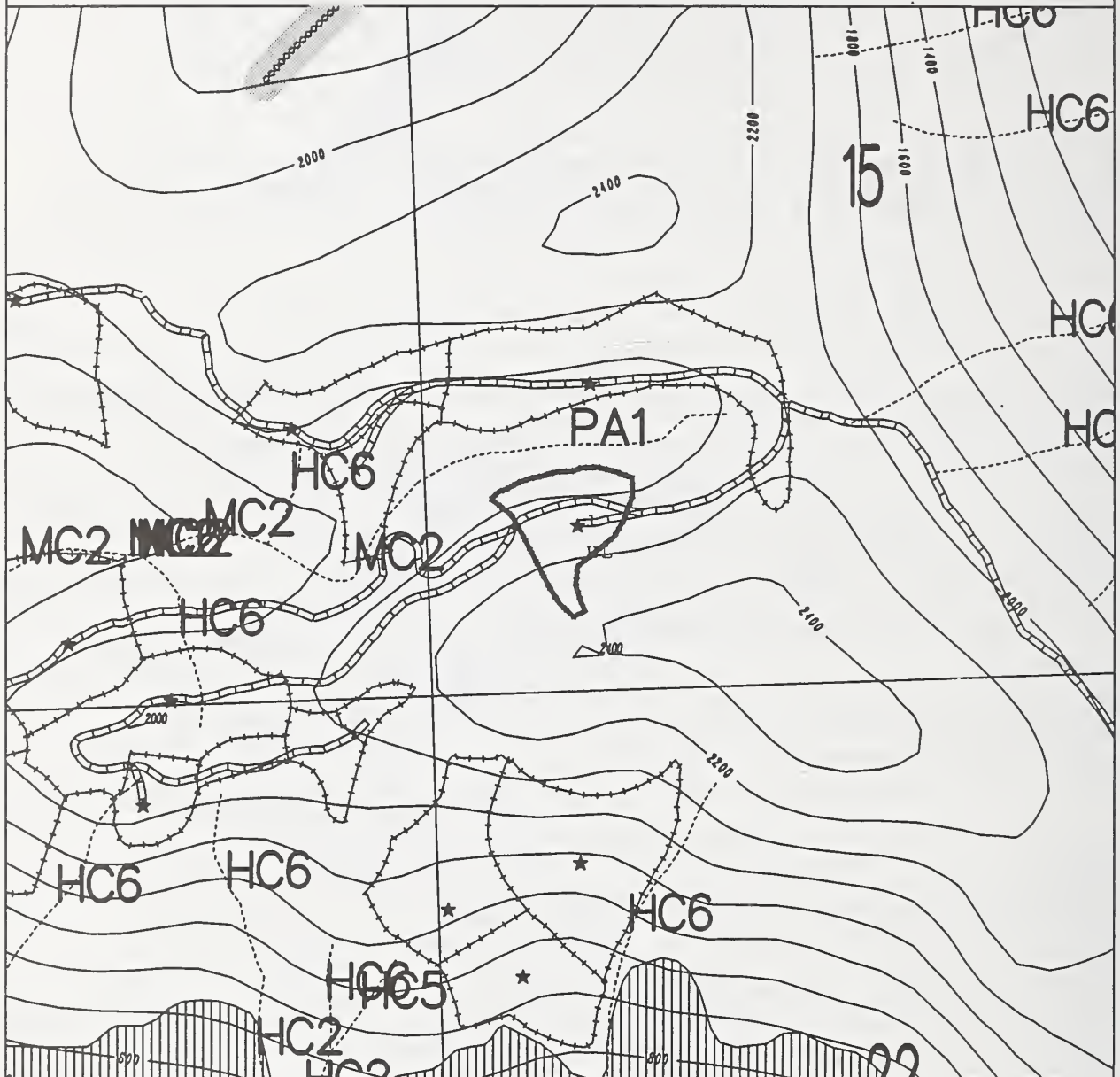
VCU: 7370

UNIT NUMBER: 7090

PLANNED HARVEST UNIT MAP

ACRES: 9 VOLUME: 283 MBP QUAD(s): KTND5 QUARTER QUAD(s): SES
 PHOTO NUM.: 1279-36 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL

0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (upward arrow in circle)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



SHELTERWOOD
 HARVEST
 BEACH BUFFER

LOGGING SYSTEMS:

HL HIGHLEAD



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7091</u>	No. Settings <u>8</u>	Alternatives considered <u>4</u>	VQO <u>M</u>
Planned acres <u>83</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2437</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WHS</u>
Logging methods <u>HL</u> <u>RS</u> <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-36</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 26 acres VC5 57 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 14 acres 1200-1500 ft. 20 acres over 1500 ft. 49 acres
Mass movement index: Low 0 acres Medium 0 acres High 83 acres Very High 0 acres
Cedar 0 Hemlock 82 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect West

SOILS

This unit has 83 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 72 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7370

UNIT NUMBER: 7091

PLANNED HARVEST UNIT MAP

ACRES: 83

VOLUME: 2437

MBP

QUAD(s): KTND5

QUARTER QUAD(s): SES

PHOTO NUM.:

1279-36

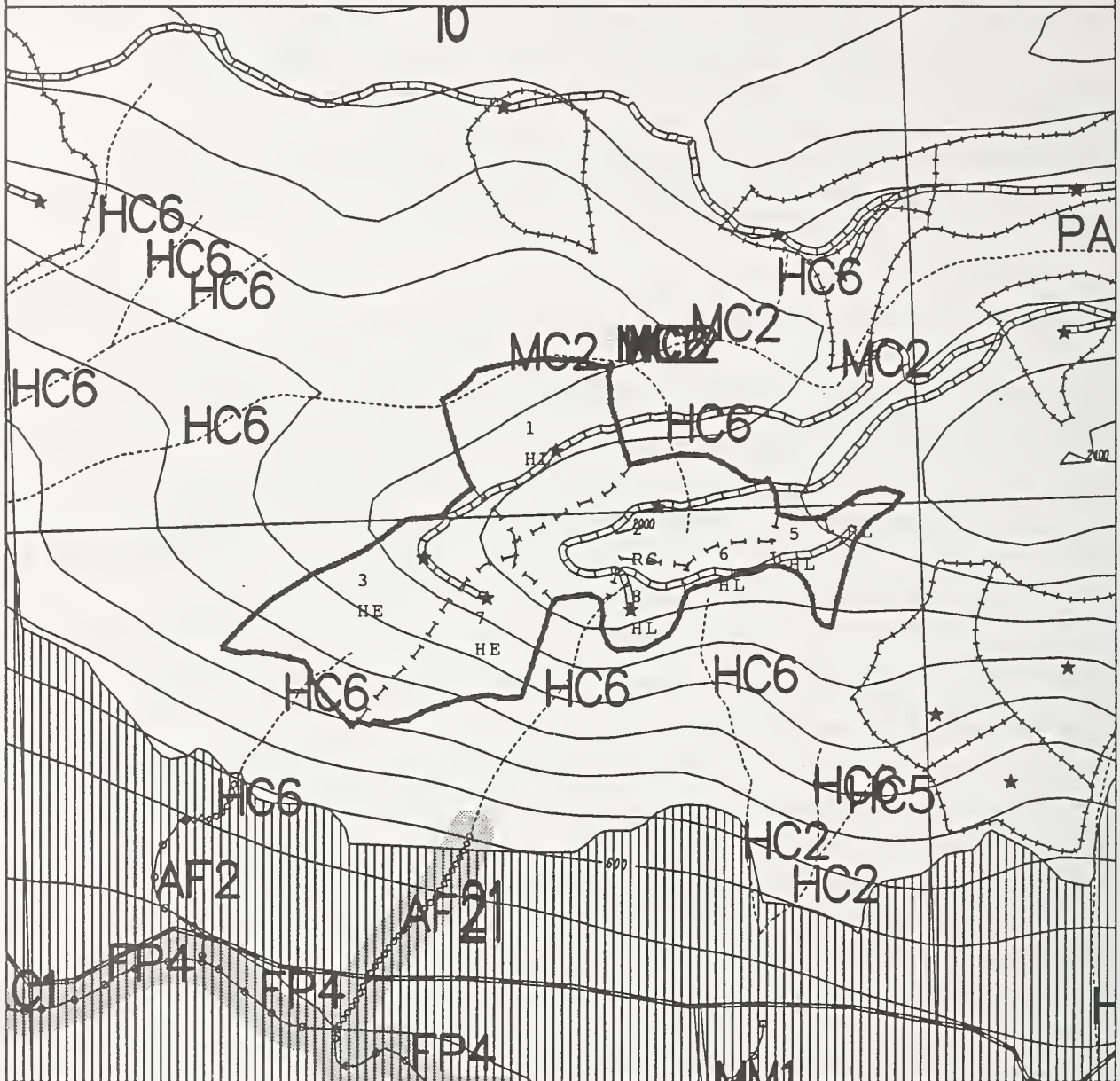
LANDNET INFO

TOWNSHIP

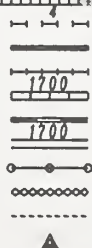
70S

RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HL HIGHLEAD

RS RUNNING SKYLINE

HE HELICOPTER

SHELTERWOOD

HARVEST

BEACH BUFFER



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR WRPA DEIS

Unit <u>7092</u>	No. Settings <u>4</u>	Alternatives considered <u>4</u>	VQO <u>MM</u>
Planned acres <u>57</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1622</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WHS</u>
Logging methods <u>RS LS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-85</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 26 acres VC5 31 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 9 acres 800-1200 ft. 42 acres 1200-1500 ft. 6 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 26 acres High 31 acres Very High 0 acres
Cedar 0 Hemlock 56 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect South

SOILS

This unit has 56 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.
High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are 1 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

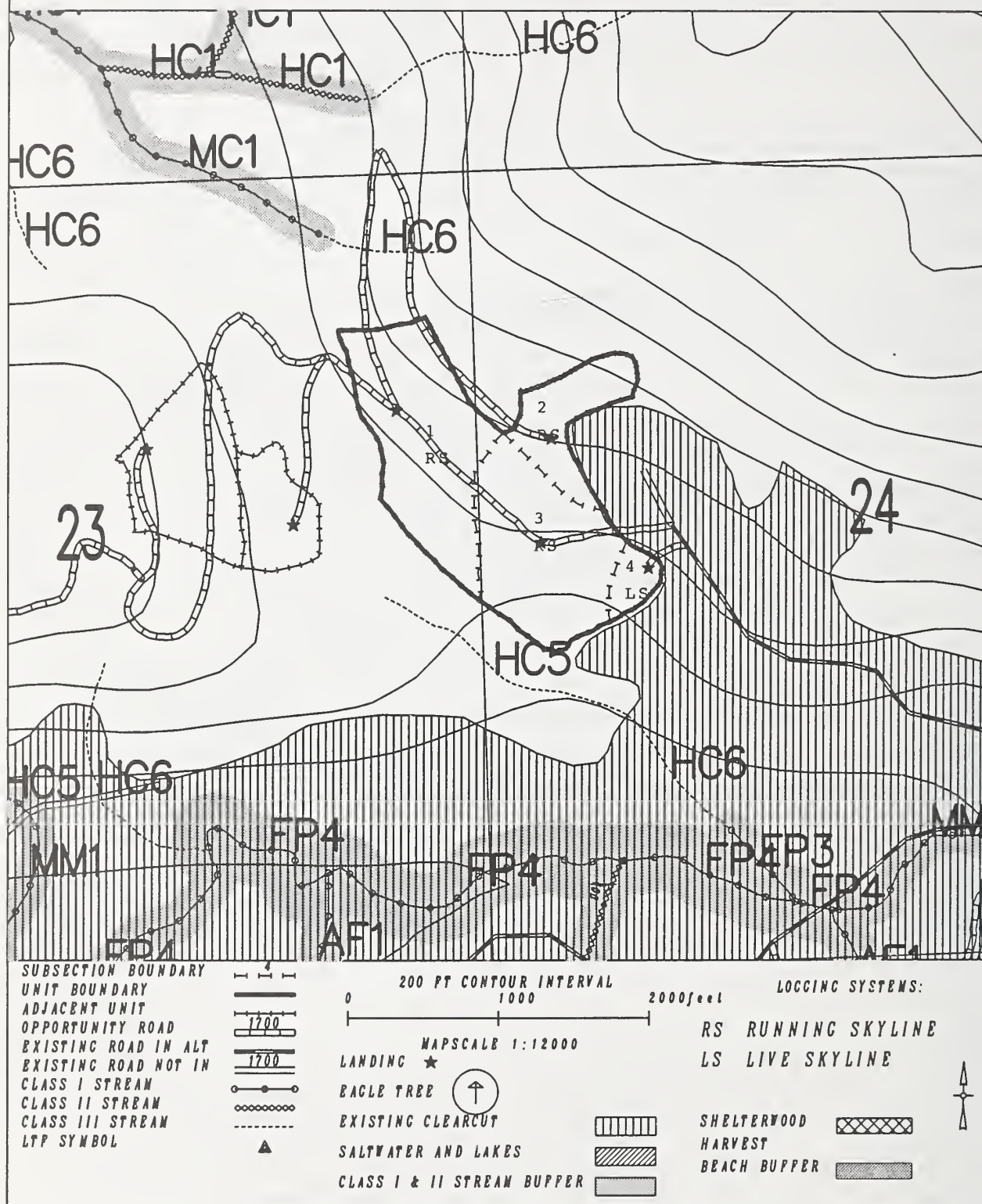
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7092

PLANNED HARVEST UNIT MAP

ACRES: 57 VOLUME: 1622 MBP QUAD(s): KTND5 QUARTER QUAD(s): SES
 PHOTO NUM.: 1279-85 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7093</u>	No. Settings <u>8</u>	Alternatives considered <u>4</u>	VQO <u>MM</u>
Planned acres <u>96</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2561</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CCD</u>
Logging methods <u>HL SL RS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-10</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 72 acres VC5 23 acres VC6 1 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 24 acres 800-1200 ft. 45 acres 1200-1500 ft. 26 acres over 1500 ft. 1 acres
Mass movement index: Low 23 acres Medium 7 acres High 66 acres Very High 0 acres
Cedar 0 Hemlock 86 Mixed 10 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 96 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 63 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

This unit contains 8 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

Difficult topography - More complex/expensive yarding system may be require due to terrain.

ENGINEERING

Very difficult road construction due to unstable, oversteepened slopes or extended steep grades. If road can not be surveyed, may need to revise logging system to helicopter.

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are 2 streams which have fish passage requirements, none of which have timing restrictions (BMP 14.6).

WILDLIFE

Maintain diversity within unit by leaving 1-5 acre-sized islands of green trees at a rate of 1 acre of island for every 20 acre harvested. Leave islands must be compatible with logging system and safe working conditions.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.

There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

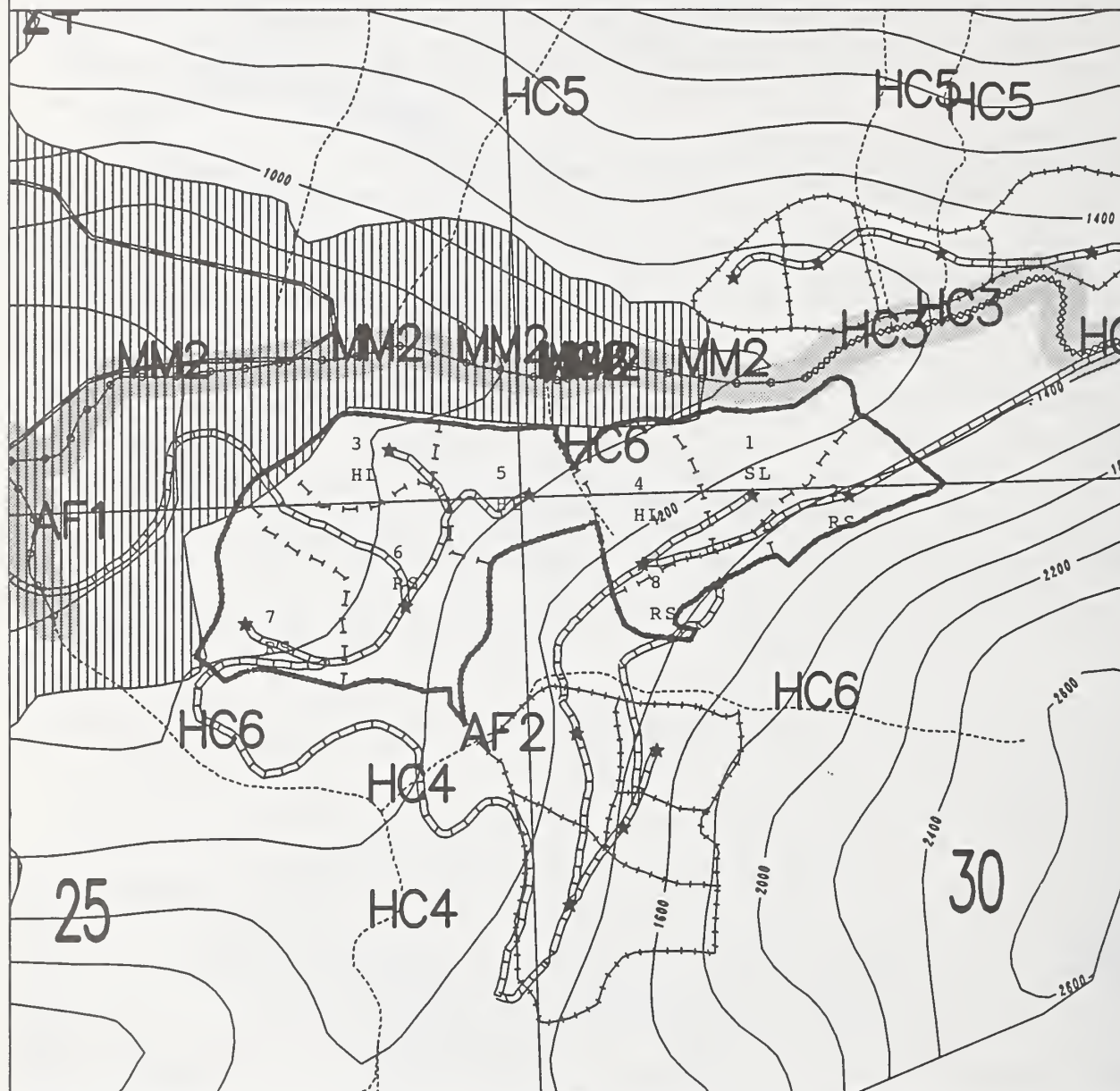
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7093

PLANNED HARVEST UNIT MAP

ACRES: 96 VOLUME: 2561 MBP QUAD(s): KTND5 QUARTER QUAD(s): SES
 PHOTO NUM.: 1279-10 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 EAGLE TREE (↑)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

SL SLACKLINE
 RS RUNNING SKYLINE
 HL HIGHLEAD
 SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7094</u>	No. Settings <u>5</u>	Alternatives considered <u>4</u>	VQO <u>MM</u>
Planned acres <u>134</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>4204</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WHS</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-57</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 134 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 15 acres 800-1200 ft. 67 acres 1200-1500 ft. 43 acres over 1500 ft. 9 acres
Mass movement index: Low 0 acres Medium 0 acres High 134 acres Very High 0 acres
Cedar 0 Hemlock 132 Mixed 2 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 134 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability.(BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 127 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

Maintain diversity within unit by leaving 1-5 acre-sized islands of green trees at a rate of 1 acre of island for every 20 acre harvested. Leave islands must be compatible with logging system and safe working conditions.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

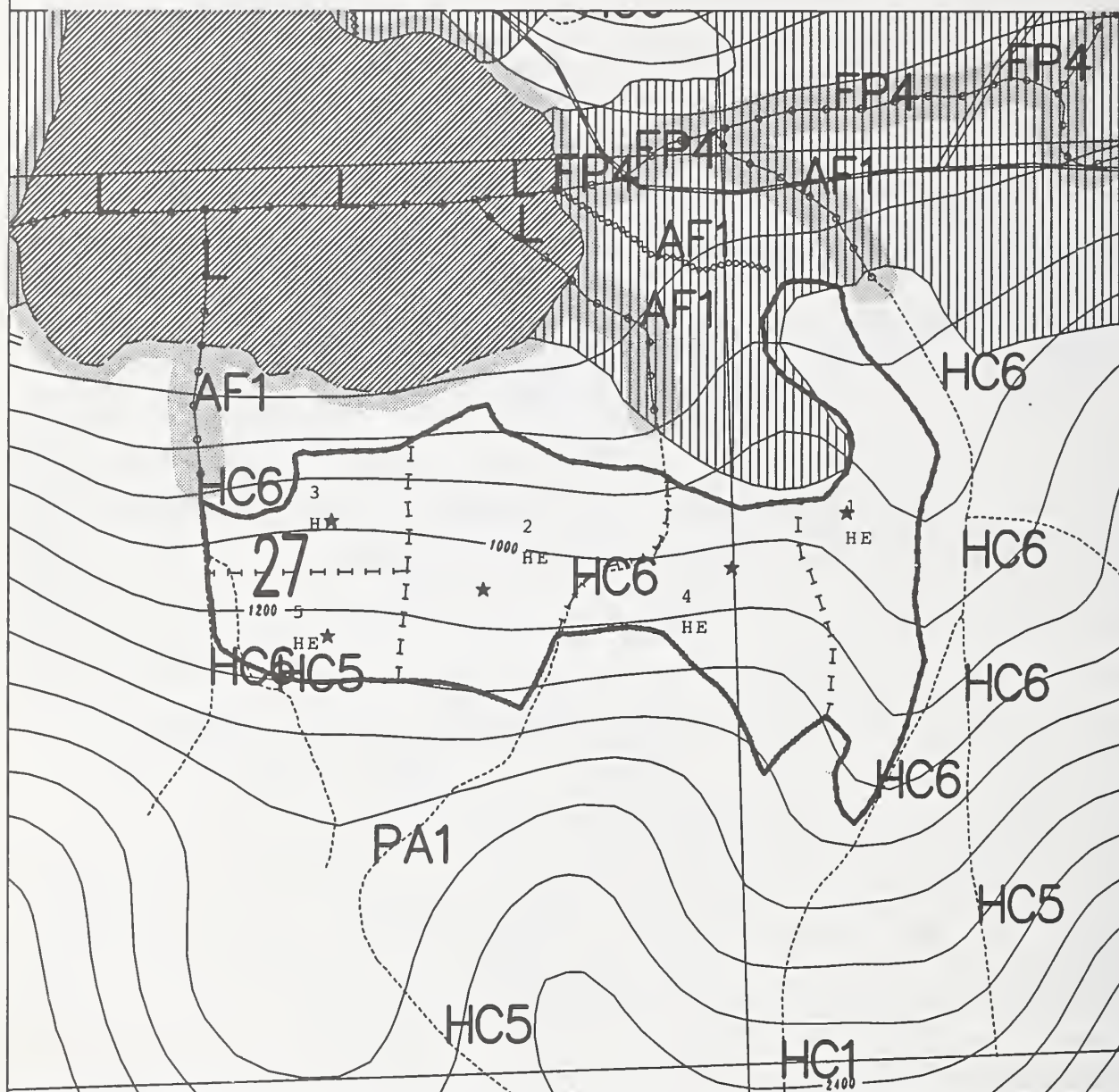
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7094

PLANNED HARVEST UNIT MAP

ACRES: 134 VOLUME: 4204 MBP QUAD(s): KTND5 QUARTER QUAD(s): SES
 PHOTO NUM.: 1279-57 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 EAGLE TREE (↑)

EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

HE HELICOPTER

SHELTERWOOD
 HARVEST
 BEACH BUFFER



UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7095</u>	No. Settings <u>1</u>	Alternatives considered <u>4</u>	VQO <u>MM</u>
Planned acres <u>62</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1912</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WHS</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-34</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 5 acres VC5 57 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 1 acres 1200-1500 ft. 12 acres over 1500 ft. 49 acres
Mass movement index: Low 0 acres Medium 0 acres High 53 acres Very High 9 acres
Cedar 0 Hemlock 62 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 62 acres that may require partial or full suspension (BMP 13.9)
This unit has very high mass movement index soils.
This unit has a possibility to have areas reclassified as MMI=4. Field verification required to determine suitability. (BMP13.19)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 60 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.

ENGINEERING

This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

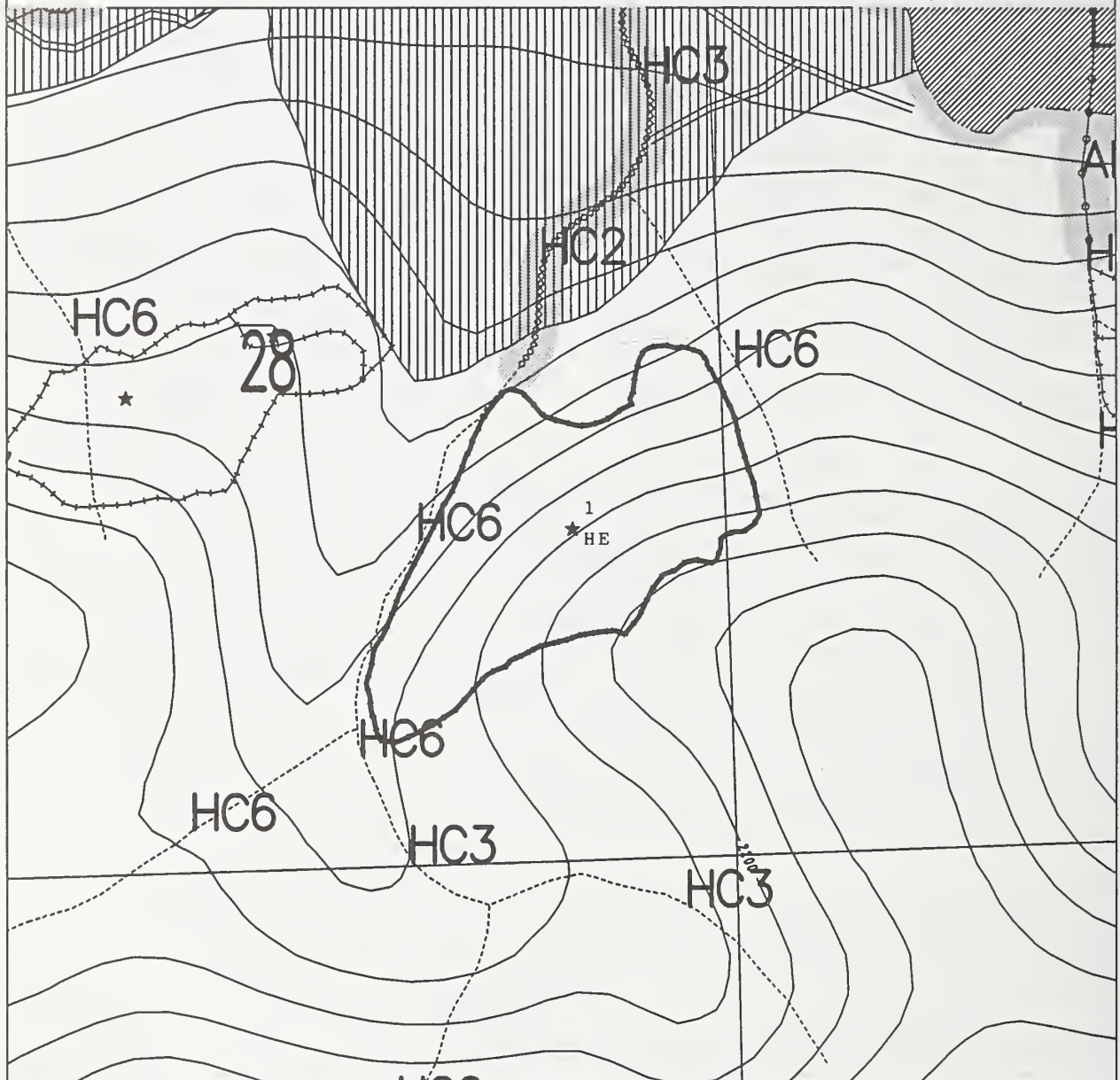
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7095

PLANNED HARVEST UNIT MAP

ACRES: 62 VOLUME: 1912 MBP QUAD(s): KTND5 QUARTER QUAD(s): SES
 PHOTO NUM.: 1279-34 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HE HELICOPTER

SHELTERWOOD

HARVEST

BEACH BUFFER



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7096</u>	No. Settings <u>2</u>	Alternatives considered <u>4</u>	VQO <u>M</u>
Planned acres <u>37</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1135</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WHS</u>
Logging methods <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-34</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 4 acres VC5 33 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 3 acres 1200-1500 ft. 22 acres over 1500 ft. 12 acres
Mass movement index: Low 3 acres Medium 0 acres High 34 acres Very High 0 acres
Cedar 0 Hemlock 31 Mixed 1 Percent Seen 89 Percent Unseen 11 Aspect North

SOILS

This unit has 37 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 7 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 24 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M as seen from viewpoints within the HEAD OF NEETS BAY viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7096

PLANNED HARVEST UNIT MAP

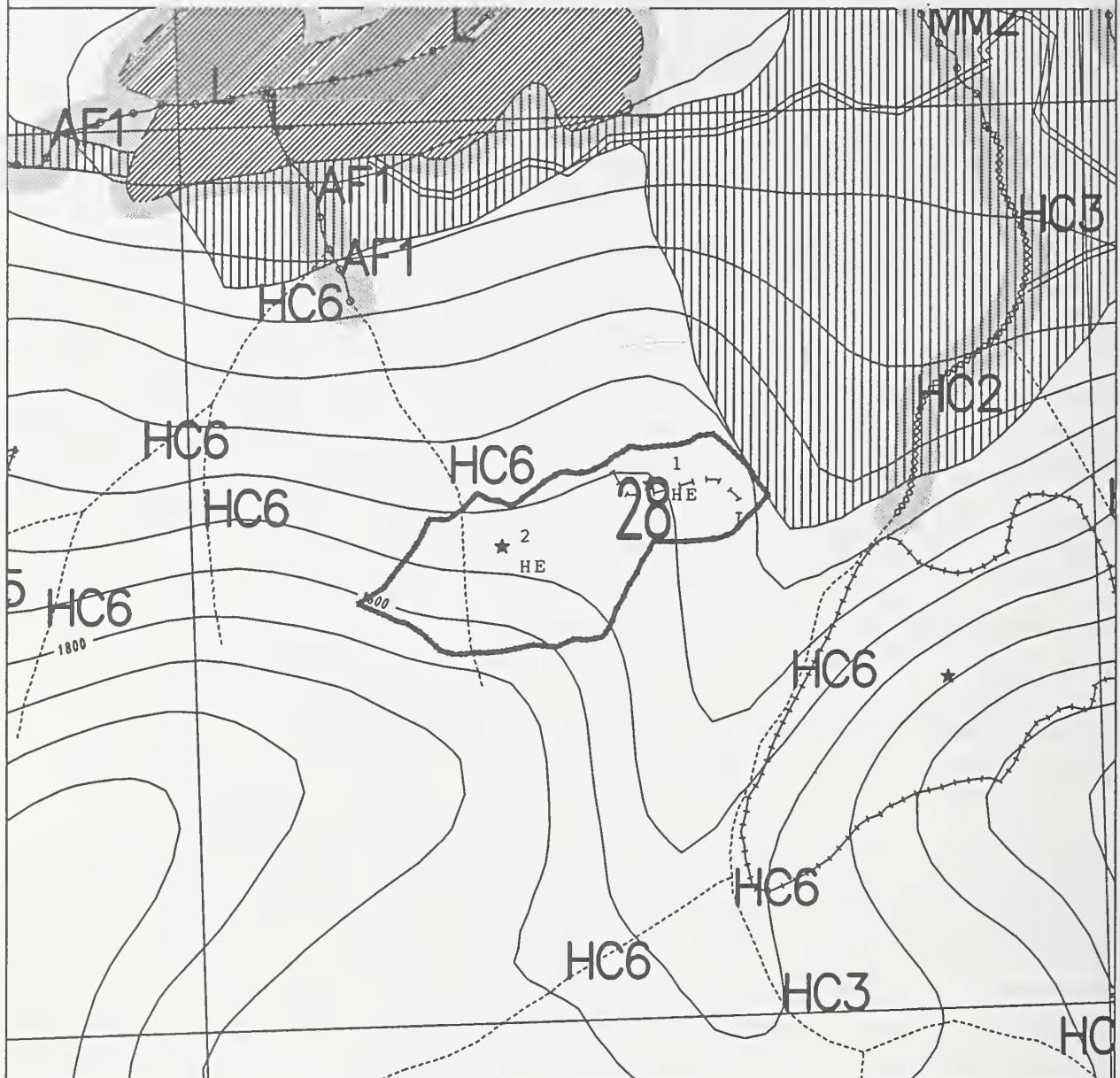
ACRES: 37VOLUME: 1135 MBPQUAD(s): KTND5QUARTER QUAD(s): SESPHOTO NUM.: 1279-34

LANDNET INFO

TOWNSHIP

7QSRANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

HE HELICOPTER

SHELTERWOOD

HARVEST

BEACH BUFFER



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7097</u>	No. Settings <u>6</u>	Alternatives considered <u>4</u>	VQO <u>MM</u>
Planned acres <u>88</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>2505</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CCS</u>
Logging methods <u>RS LS</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-10</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 50 acres VC5 38 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 22 acres over 1500 ft. 66 acres
Mass movement index: Low 5 acres Medium 0 acres High 83 acres Very High 0 acres
Cedar 0 Hemlock 87 Mixed 0 Percent Seen 1 Percent Unseen 99 Aspect North

SOILS

This unit has 88 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 10 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).
This unit contains 44 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).
This unit may contain riparian soils. Maintain water quality and fish habitat (BMPs12.6, 13.9).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).
This unit contains riparian areas. Use site specific BMPs to maintain water quality and fish habitat/passage during road construction (BMP14.13).
Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the _____ viewshed, approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

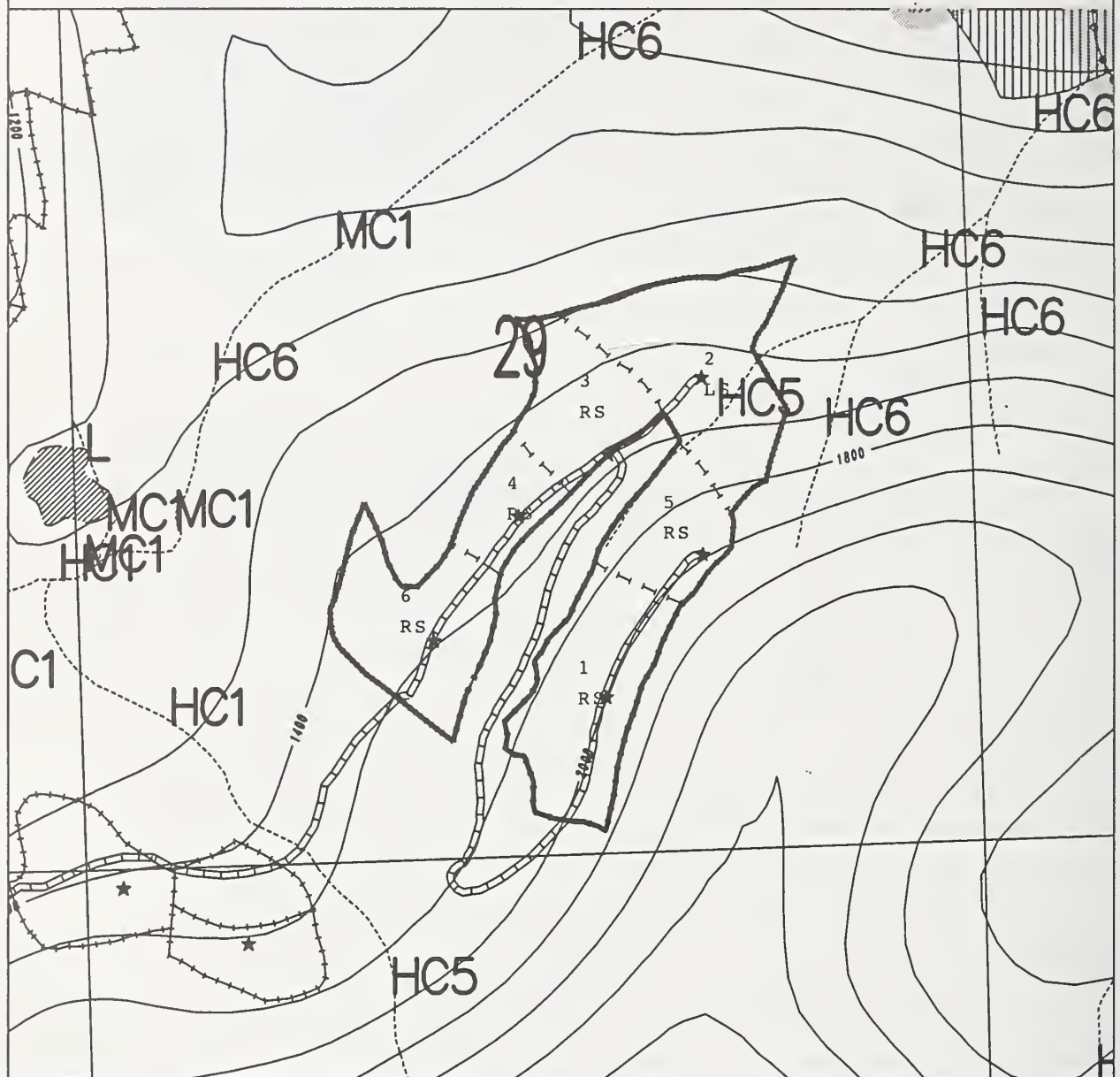
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7097

PLANNED HARVEST UNIT MAP

ACRES: 88 VOLUME: 2505 MBP QUAD(s): KTND5 QUARTER QUAD(s): SES/SWS
 PHOTO NUM.: 1279-10 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE

LS LIVE SKYLINE

SHELTERWOOD HARVEST

BEACH BUFFER



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7099</u>	No. Settings <u>1</u>	Alternatives considered <u>4</u>	VQO <u>MM</u>
Planned acres <u>15</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>471</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WDC</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u>Mixed conifer</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1179-18</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 15 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 15 acres 800-1200 ft. 0 acres 1200-1500 ft. 0 acres over 1500 ft. 0 acres
Mass movement index: Low 3 acres Medium 0 acres High 12 acres Very High 0 acres
Cedar 0 Hemlock 0 Mixed 15 Percent Seen 0 Percent Unseen 100 Aspect West

SOILS

This unit has 15 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit may contain > 40% McGilvery soils. Field verification required to determine suitability.(BMP13.19)

This unit contains 1 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are 3 streams which have fish passage requirements, of these passes 3 have timing restrictions (BMPs 13.4,14.3,14.6).

WILDLIFE

Possible active Bald Eagle nest site. Road construction within 1/2 mile of
Bald Eagle nest site. If nestsite is active follow the intra-agency agreement
agreement with U.S. Fish & Wildlife.
Unit is adjacent to estuary or beach fringe; maintain 1000 or 500 ft buffer.

RECREATION / VISUALS

This unit has a adopted VQO of MM as seen from viewpoints within the _____ viewshed,
approximately a minimum 1/4 mile from shoreline.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

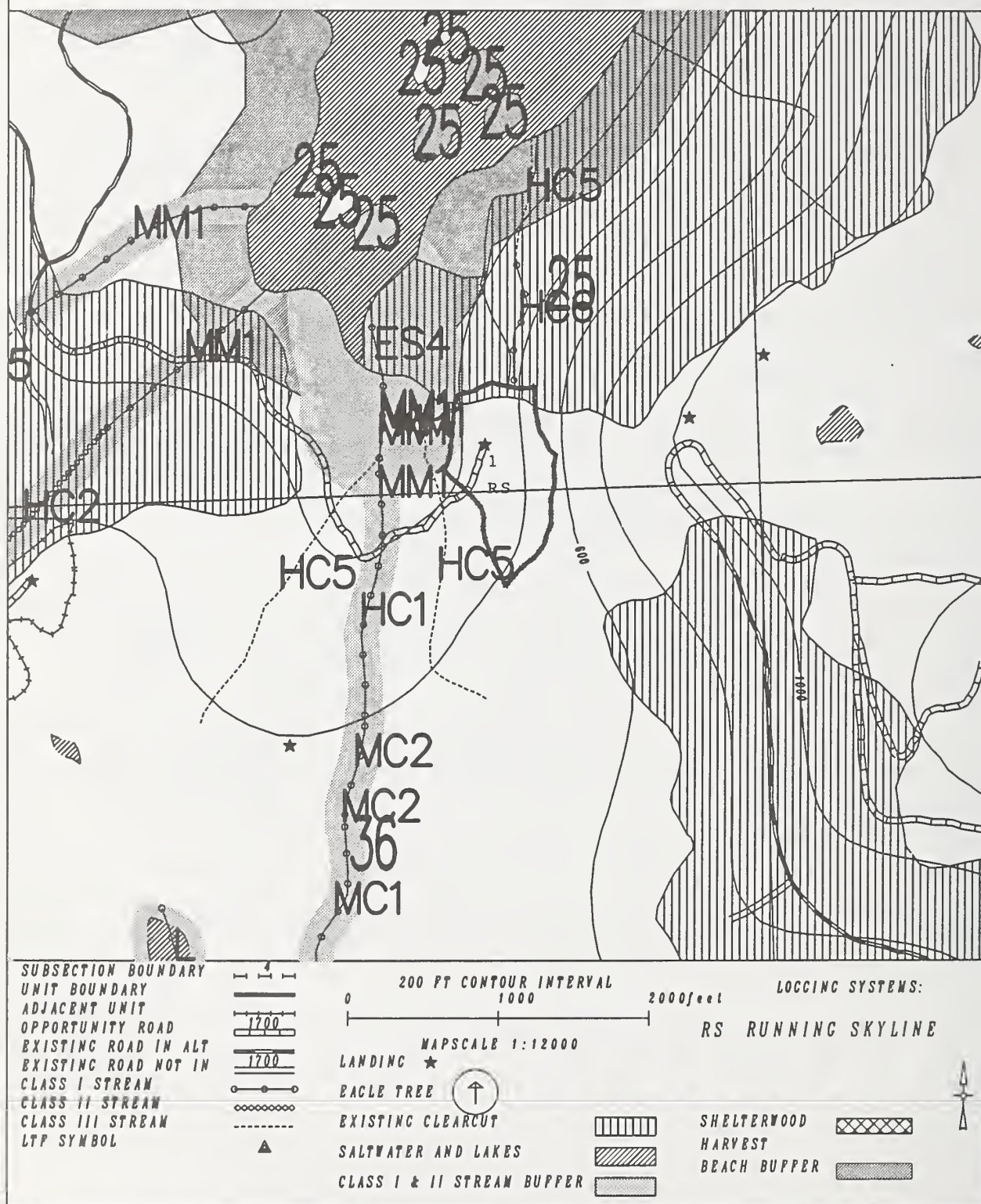
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7099

PLANNED HARVEST UNIT MAP

ACRES: 15 VOLUME: 471 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1179-18 LANDNET INFO TOWNSHIP 70S RANGE 90E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7101</u>	No. Settings <u>2</u>	Alternatives considered <u>5</u>	VQO <u>M</u>
Planned acres <u>66</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1975</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WHS</u>
Logging methods <u>RS</u> <u>HE</u>		WAA <u>510</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-11</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 15 acres VC5 51 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 4 acres 800-1200 ft. 17 acres 1200-1500 ft. 15 acres over 1500 ft. 30 acres
Mass movement index: Low 0 acres Medium 38 acres High 28 acres Very High 0 acres
Cedar 0 Hemlock 66 Mixed 0 Percent Seen 100 Percent Unseen 0 Aspect South

SOILS

This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit has < 40% McGilvery soils. Partial suspension required (BMP13.9) to ensure reforestation (BMP13.19).
This unit contains 27 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

Potential regeneration problem. May need to consider other silvicultural prescriptions (or hand plant) to meet BMP13.19.
Potentially very low volume per acre.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

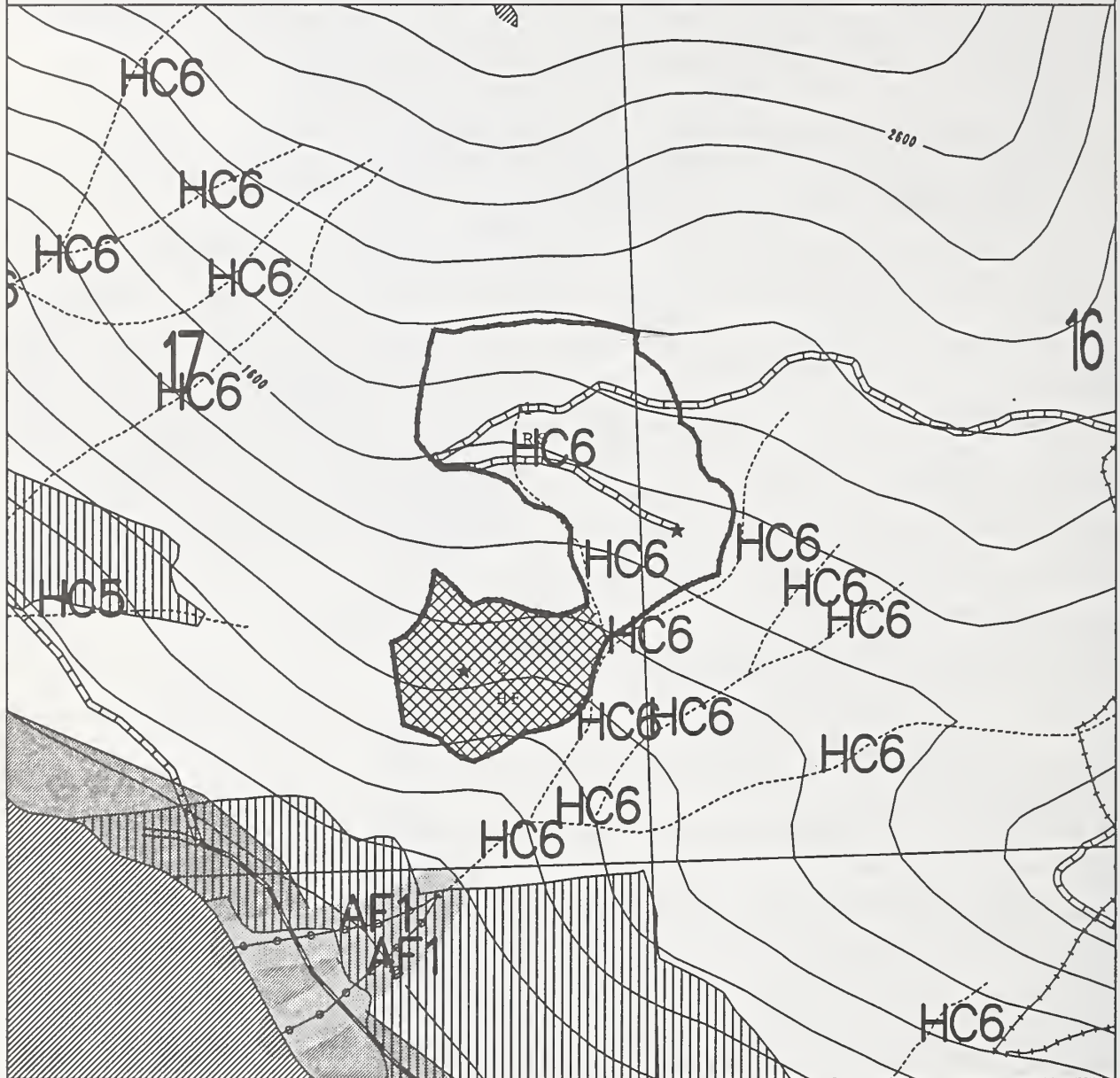
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7101

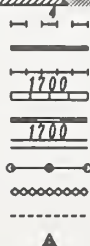
PLANNED HARVEST UNIT MAP

ACRES: 66 VOLUME: 1975 MBP QUAD(s): KTND5 QUARTER QUAD(s): SES
 PHOTO NUM.: 1279-11 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

EAGLE TREE

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE

HE HELICOPTER

SHELTERWOOD

HARVEST

BEACH BUFFER



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7518</u>	No. Settings <u>1</u>	Alternatives considered <u>2</u>	VQO <u>M</u>
Planned acres <u>14</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u> </u>
Estimated volume (mbf) <u>565</u>		Mgmt Area <u>K32</u> VCU <u>7350</u>	Plant Series <u> </u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u> </u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-10</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 1 acres VC6 13 acres VC7 0 acres

Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 14 acres over 1500 ft. 0 acres

Mass movement index: Low 0 acres Medium 14 acres High 0 acres Very High 0 acres

Cedar 0 Hemlock 14 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit contains 7 acres of forested wetlands. Site specific BMPs will be designed for selected approved logging system and road construction practices. (BMPs 12.5, 13.9, 13.15).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

There are no engineering mitigation measures anticipated for this unit.

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M, and is not seen within a viewshed.

There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

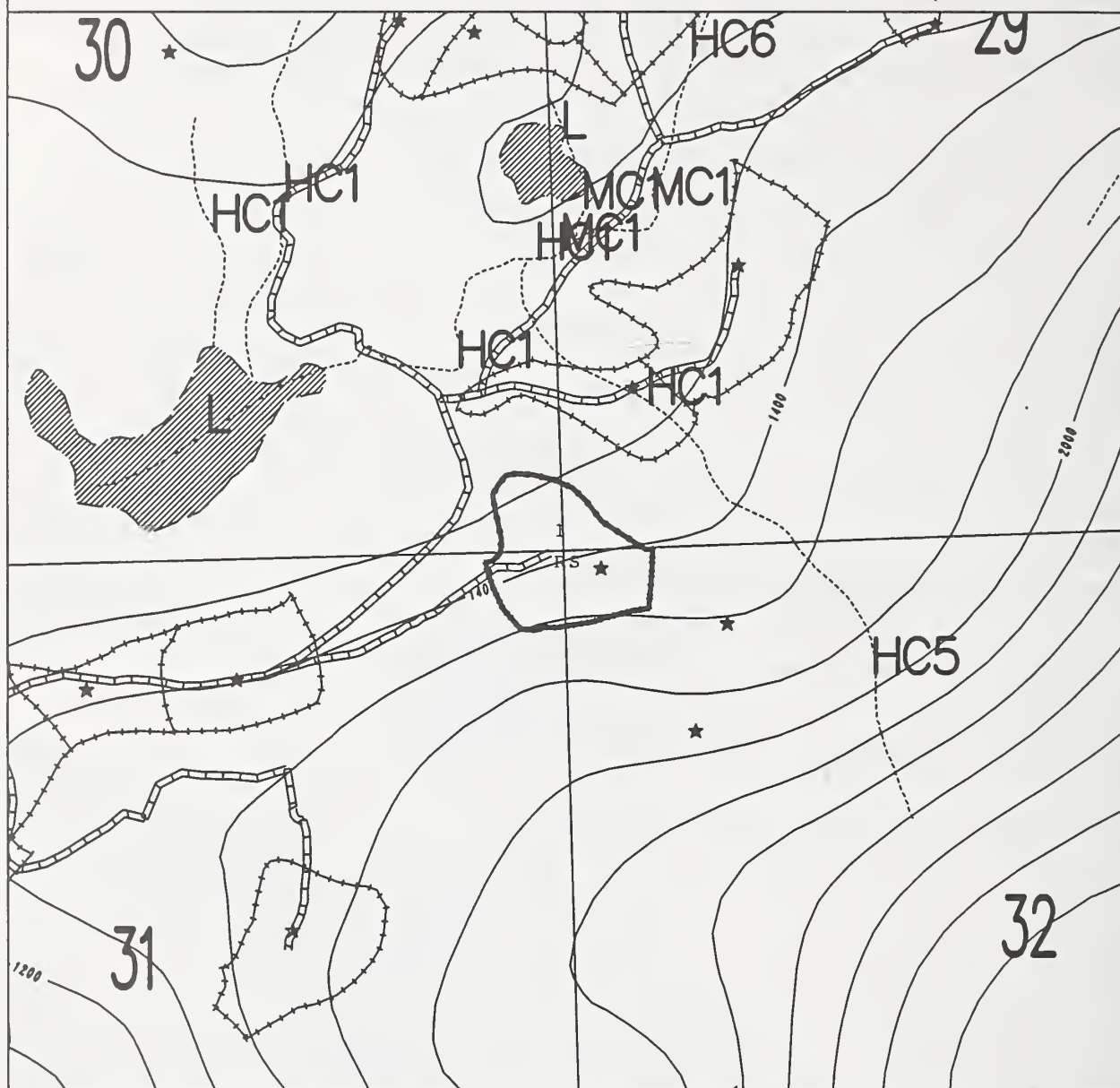
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7518

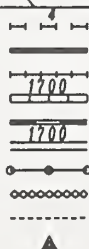
PLANNED HARVEST UNIT MAP

ACRES: 14 VOLUME: 565 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1279-10 LANDNET INFO TOWNSHIP 70S RANCR 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAP SCALE 1:12000

LANDING ★

EAGLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER

LOGGING SYSTEMS:

RS RUNNING SKYLINE



SHELTERWOOD

HARVEST

BEACH BUFFER



July 14, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7551</u>	No. Settings <u>4</u>	Alternatives considered <u>6</u>	VQO <u>M</u>
Planned acres <u>58</u>		Quad <u>KTND5SES</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1660</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>WHS</u>
Logging methods <u>RS LS</u>		WAA <u>510</u>	Forest type <u></u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-10</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 35 acres VC5 23 acres VC6 0 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 43 acres over 1500 ft. 15 acres
Mass movement index: Low 4 acres Medium 0 acres High 54 acres Very High 0 acres
Cedar 0 Hemlock 58 Mixed 0 Percent Seen 2 Percent Unseen 98 Aspect North

SOILS

This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of M, and is not seen within a viewshed.

There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7551

PLANNED HARVEST UNIT MAP

ACRES: 58VOLUME: 1660

MBP

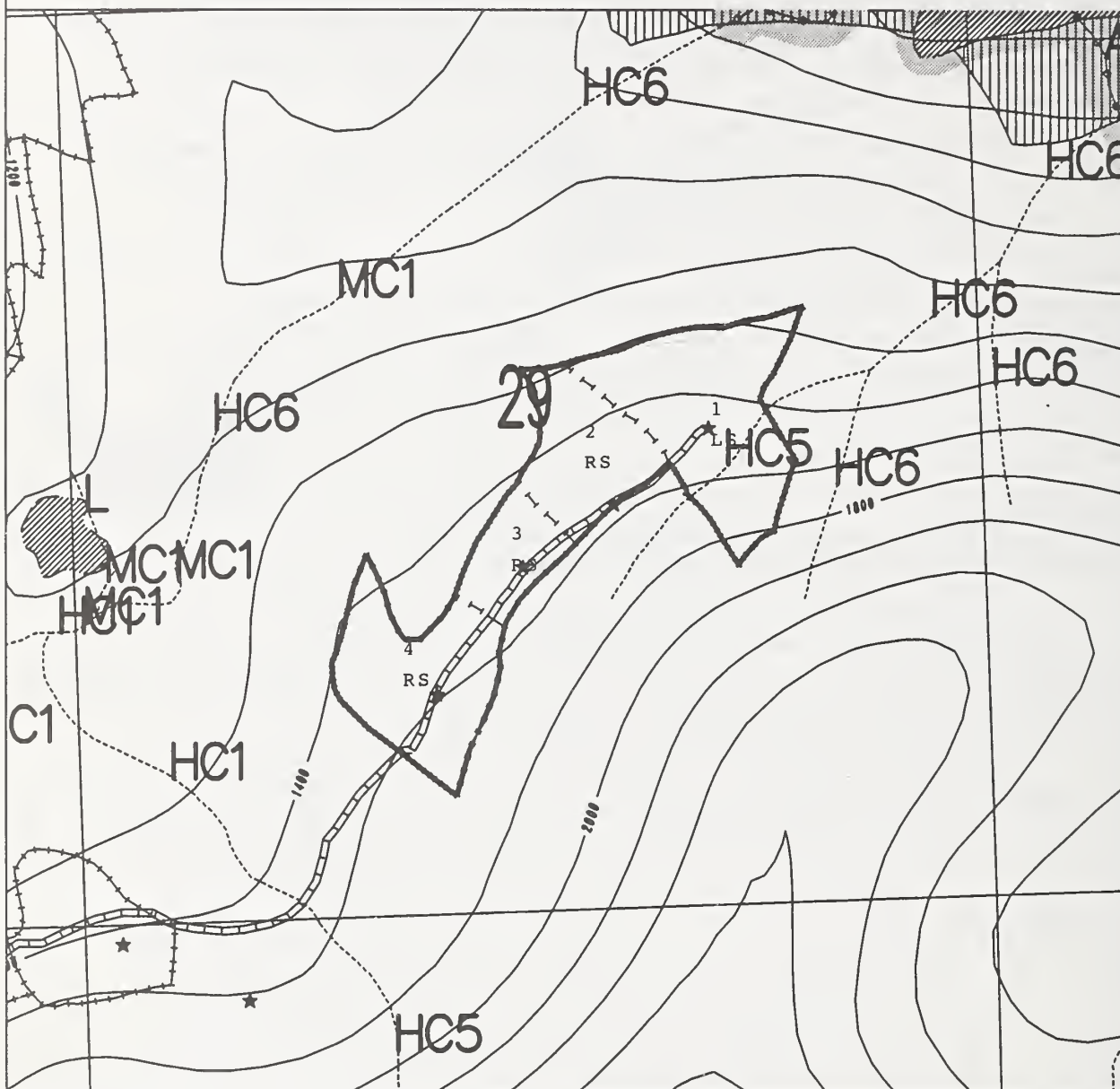
QUAD(s): KTND5QUARTER QUAD(s): SES/SWSPHOTO NUM.: 1279-10

LANDNET INFO

TOWNSHIP

70SRANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
UNIT BOUNDARY
ADJACENT UNIT
OPPORTUNITY ROAD
EXISTING ROAD IN ALT
EXISTING ROAD NOT IN
CLASS I STREAM
CLASS II STREAM
CLASS III STREAM
LTP SYMBOL



200 FT CONTOUR INTERVAL
0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BACLE TREE (upward arrow in circle)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUPPER

LOGGING SYSTEMS:

LS LIVE SKYLINE

RS RUNNING SKYLINE

SHELTERWOOD

HARVEST

BEACH BUPPER



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7552</u>	No. Settings <u>2</u>	Alternatives considered <u>6</u>	VQO <u>MM</u>
Planned acres <u>34</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>M</u>
Estimated volume (mbf) <u>1386</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CCD</u>
Logging methods <u>RS</u>		WAA <u>510</u>	Forest type <u></u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-10</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 1 acres VC6 33 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 34 acres over 1500 ft. 0 acres
Mass movement index: Low 0 acres Medium 0 acres High 34 acres Very High 0 acres
Cedar 0 Hemlock 33 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

High mass movement index soils. Road construction must minimize landslide potential (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.

There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

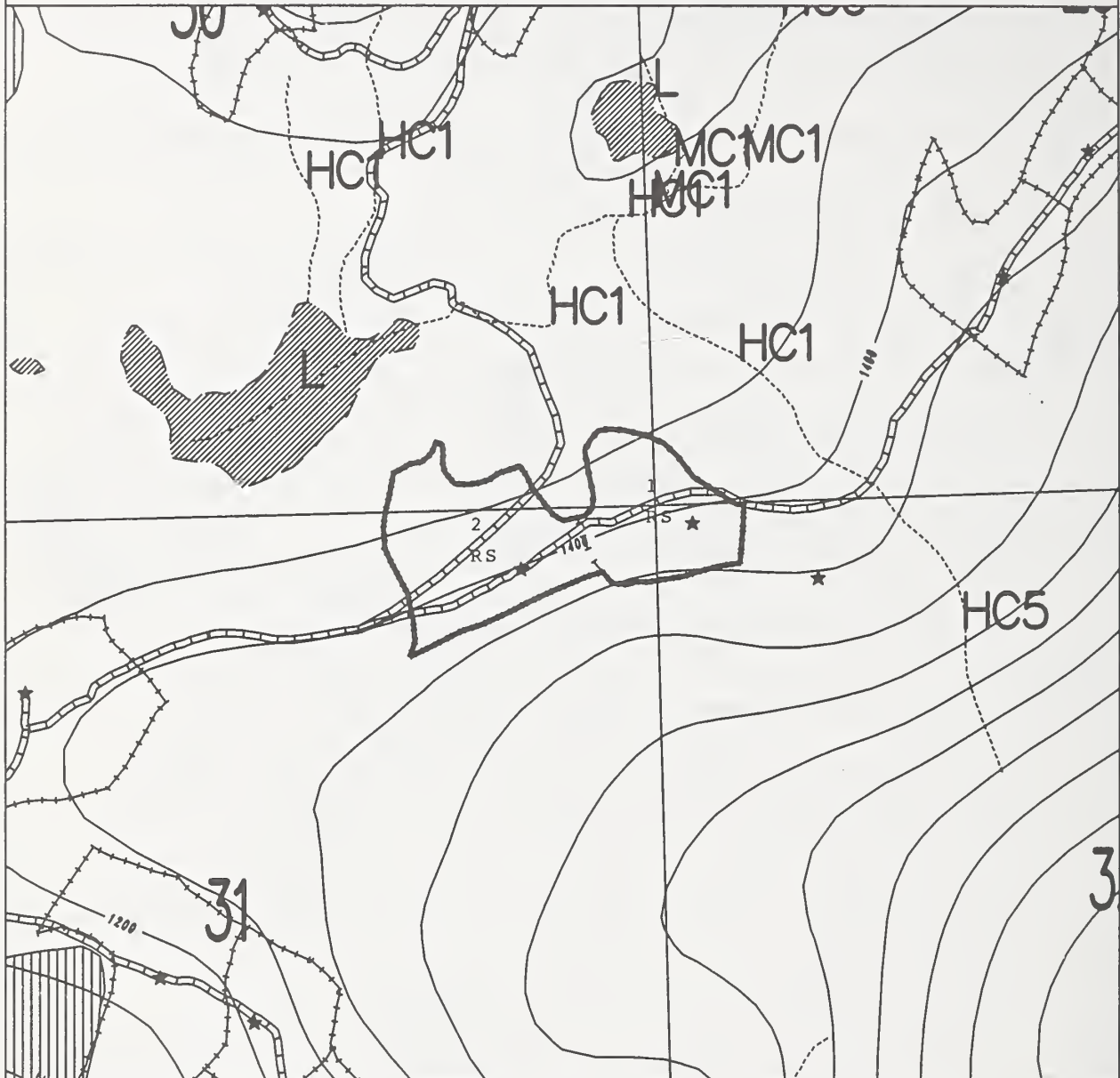
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7552

PLANNED HARVEST UNIT MAP

ACRES: 34 VOLUME: 1386 MBP QUAD(s): KTND5 QUARTER QUAD(s): SWS
 PHOTO NUM.: 1279-10 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following
 intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★

BACLE TREE (↑)

EXISTING CLEARCUT

SALTWATER AND LAKES

CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

RS RUNNING SKYLINE

SHELTERWOOD
 HARVEST

BEACH BUFFER



July 03, 1993

UNIT PLAN/LAYOUT/SALE ADMINISTRATION CARD FOR NRPA DEIS

Unit <u>7598</u>	No. Settings <u>3</u>	Alternatives considered <u>4</u>	VQO <u>MM</u>
Planned acres <u>29</u>		Quad <u>KTND5SWS</u>	Windthrow risk <u>H</u>
Estimated volume (mbf) <u>1083</u>		Mgmt Area <u>K32</u> VCU <u>7370</u>	Plant Series <u>CCD</u>
Logging methods <u>HE</u>		WAA <u>5101</u>	Forest type <u>Hemlock</u>
Silvicultural system <u>Clearcut</u>		1981 Photo <u>1279-10</u>	

PHYSICAL DESCRIPTION

Volume class breakdown: VC4 0 acres VC5 16 acres VC6 13 acres VC7 0 acres
Elevation breakdown: 0-800 ft. 0 acres 800-1200 ft. 0 acres 1200-1500 ft. 9 acres over 1500 ft. 20 acres
Mass movement index: Low 1 acres Medium 0 acres High 27 acres Very High 0 acres
Cedar 0 Hemlock 26 Mixed 0 Percent Seen 0 Percent Unseen 100 Aspect North

SOILS

This unit has 29 acres that may require partial or full suspension (BMP 13.9)
This unit has high mass movement index soils. Partial log suspension required over these areas.(BMP13.9)
This unit contains 17 mapped acres on very steep slopes. Field verification required to determine suitability (BMP13.19).

TIMBER

There are no timber mitigation measures anticipated for this unit.

ENGINEERING

Oversteepened slopes may require full bench construction and endhaul of waste (BMP14.7).

FISH/WATERSHED

There are no fishery mitigation measures anticipated for this unit.

WILDLIFE

There are no wildlife mitigation measures anticipated for this unit.

RECREATION / VISUALS

This unit has a adopted VQO of MM, and is not seen within a viewshed.
There are no visual mitigation measures anticipated for this unit.

LANDS

There are no State & private lands or special-use authorizations near this unit.

CULTURAL RESOURCES

There are no cultural resource mitigation measures anticipated for this unit.

GEOLOGY

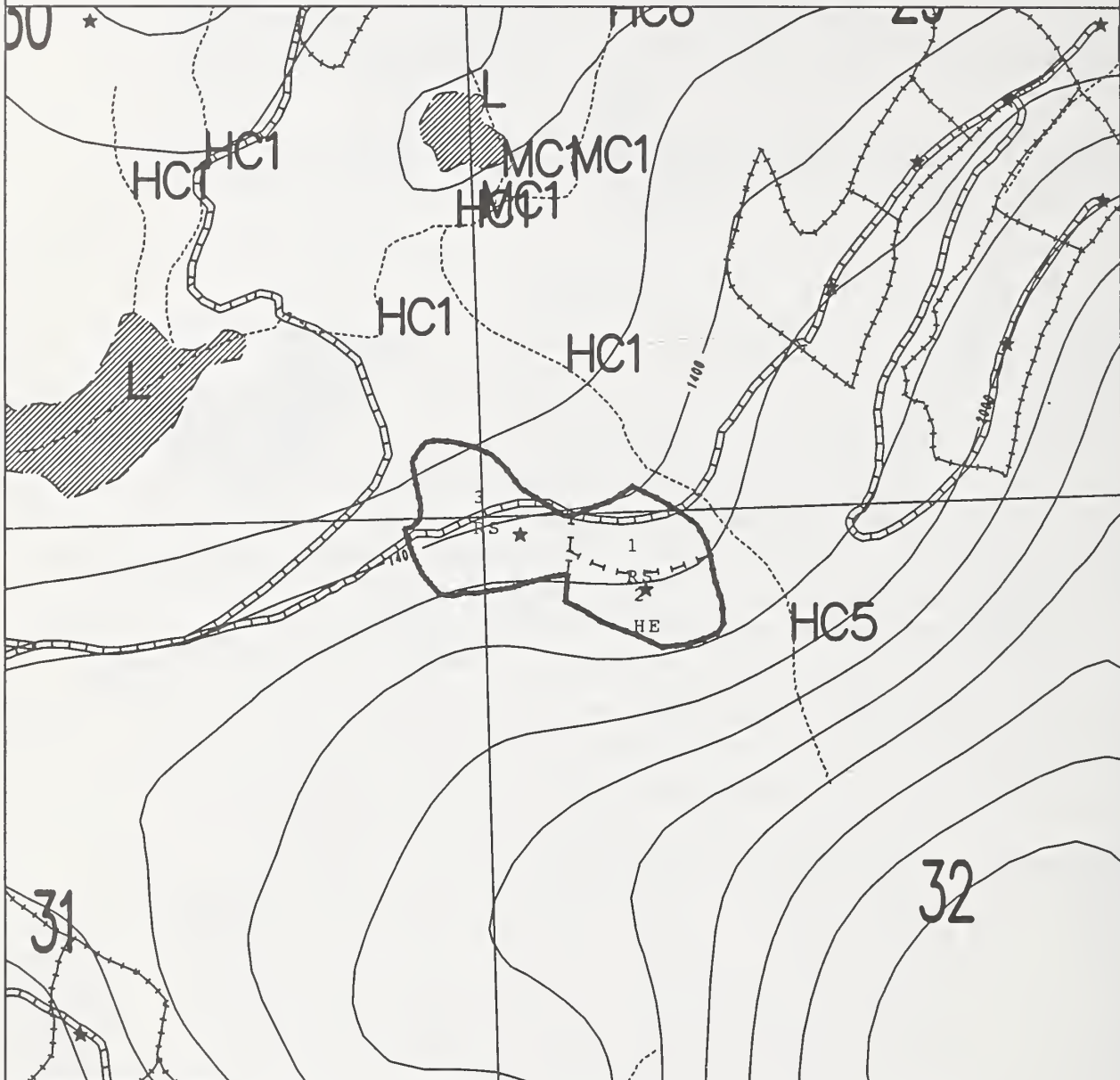
There are no geological mitigation measures anticipated for this unit.

VCU: 7370UNIT NUMBER: 7598

PLANNED HARVEST UNIT MAP

ACRES: 29 VOLUME: 1083 MBP QUAD(s): KTND5 QUARTER QUAD(s): SES/SWS
 PHOTO NUM.: 1279-10 LANDNET INFO TOWNSHIP 70S RANGE 91E

Refer to the Logging/Transportation Plan overlay for the indicated aerial photograph to supplement the following intended design of the harvest unit and associated roads.



SUBSECTION BOUNDARY
 UNIT BOUNDARY
 ADJACENT UNIT
 OPPORTUNITY ROAD
 EXISTING ROAD IN ALT
 EXISTING ROAD NOT IN
 CLASS I STREAM
 CLASS II STREAM
 CLASS III STREAM
 LTP SYMBOL



200 FT CONTOUR INTERVAL
 0 1000 2000 feet

MAPSCALE 1:12000

LANDING ★
 BACLE TREE (upward arrow)
 EXISTING CLEARCUT
 SALTWATER AND LAKES
 CLASS I & II STREAM BUFFER



LOGGING SYSTEMS:

RS RUNNING SKYLINE
 HE HELICOPTER

SHELTERWOOD
 HARVEST
 BEACH BUFFER



July 14, 1993





